

TABLE 1A

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	5' NT of Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First of Secreted Portion	Last AA of ORF
1	H2CBD20	203917 04/08/99	pBluescript SK-	11	1256	1	1256		27	2608	1			17
2	H2CBH91	203917 04/08/99	pBluescript SK-	12	1760	225	1760	309	309	2609	1	36	37	40
3	H2LBA54	203917 04/08/99	pBluescript SK-	13	1529	1	1529	386	386	2610	1			5
4	H21BB09	203917 04/08/99	pBluescript SK-	14	2114	1	2114	197	197	2611	1	17	18	36
5	H21LBB09	203917 04/08/99	pBluescript SK-	15	2158	109	2158	236	236	2612	1	17	18	36
6	H2MAC63	203917 04/08/99	pBluescript SK-	16	443	1	443	172	172	2613	1	23	24	32
7	H2MBA76	203917 04/08/99	pBluescript SK-	17	1315	482	1302	717	717	2614	1	20	21	112
8	H2MBF60	203917 04/08/99	pBluescript SK-	18	1174	1	1174	320	320	2615	1	25	26	40
9	H6BSM88	203917 04/08/99	Uni-ZAP XR	19	916	1	916	95	95	2616	1	38	39	40

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	5' NT of 3' NT Clone Seq.	5' NT of First AA of Signal Pep	5' NT of AA of NO: Y	First AA of AA of Sig Pep	Last AA of AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
10	H6EEA48	203979 04/29/99	Uni-ZAP XR	20	1228	1	1228	196	196	2617	1	20	246
11	H6EEN71	203918 04/08/99	Uni-ZAP XR	21	1960	1	1083		1434	2618	1	4	27
12	H6EE005	PTA-181 06/07/99	Uni-ZAP XR	22	1425	1	1397	190	190	2619	1	34	111
13	H6EEU40	203917 04/08/99	Uni-ZAP XR	23	951	1	951	175	175	2620	1	27	47
14	H7TDB54	203959 04/26/99	PCR II	24	229	1	229	86	86	2621	1	24	48
15	H7TMB95	203917 04/08/99	Other	25	508	1	508	275	275	2622	1		25
16	HAAAT06	PTA-794 09/27/99	pSport1	26	1099	1	1085	329	329	2623	1	21	104
17	HACAD42	203917 04/08/99	Uni-ZAP XR	27	990	463	990		683	2624	1	7	19
18	HACBJ11	203917 04/08/99	Uni-ZAP XR	28	3152	889	3152	1060	1060	2625	1	19	83
19	HACBS86	203917 04/08/99	Uni-ZAP XR	29	1402	1	1402	654	654	2626	1	35	104

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20	HACBT91	203917 04/08/99	Uni-ZAP XR	30	841	1	841		329	2627	1	7	8	59
21	HACBZ73	203917 04/08/99	Uni-ZAP XR	31	966	1	966	105	105	2628	1	25	26	36
22	HACCK29	203917 04/08/99	Uni-ZAP XR	32	1005	1	1005	205	205	2629	1	25	26	29
23	HADAB60	203917 04/08/99	pSport1	33	464	1	464	202	202	2630	1	30	31	51
24	HADAM31	203917 04/08/99	pSport1	34	839	1	839	161	161	2631	1	13	14	27
25	HADCL19	203917 04/08/99	pSport1	35	1102	1	1102	140	140	2632	1	14	15	15
26	HADCZ65	203917 04/08/99	pSport1	36	1112	1	1112	240	240	2633	1			3
27	HADDC04	203917 04/08/99	pSport1	37	2531	1	2531	254	254	2634	1	28	29	32
28	HADDP23	203979 04/29/99	pSport1	38	954	1	954	238	238	2635	1	24	25	39
29	HADDP51	203979 04/29/99	pSport1	39	3342	1	3342	324	324	2636	1	31	32	126
30	HADDR24	203917 04/08/99	pSport1	40	620	1	620	230	230	2637	1	31	32	35

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31	HADET62	203917 04/08/99	pSport1	41	830	1	830	154	2638	1	18	31
32	HADEY08	203917 04/08/99	pSport1	42	4054	1	4054	201	2639	1		15
33	HADEY22	203917 04/08/99	pSport1	43	452	1	452	169	2640	1	18	32
34	HADEY22	203917 04/08/99	pSport1	44	625	1	625	169	2641	1	18	32
35	HADFB84	203917 04/08/99	pSport1	45	1193	1	1193	94	2642	1	28	46
36	HADFD01	203917 04/08/99	pSport1	46	1594	1	1594	377	2643	1	19	66
37	HADFD10	203979 04/29/99	pSport1	47	1762	1	1762	212	2644	1	30	38
38	HADFK11	203917 04/08/99	pSport1	48	1042	1	1042	24	2645	1	19	57
39	HADFT44	203917 04/08/99	pSport1	49	855	15	852	147	2646	1	25	55
40	HADFW20	203917 04/08/99	pSport1	50	1120	1	1120	223	2647	1	20	27
41	HADFX10	203917 04/08/99	pSport1	51	1278	1	1278	187	2648	1	18	36

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42	HADFY80	203917 04/08/99	pSport1	52	742	1	742	83	83	2649	1	23	34
43	HADGD93	203917 04/08/99	pSport1	53	1033	1	899	47	47	2650	1	25	45
44	HADMA77	203917 04/08/99	pBluescript	54	1913	763	1913		992	2651	1	14	23
45	HADXA10	203960 04/26/99	pSport1	55	1992	1149	1927	1327	1327	2652	1	48	123
46	HADXA10	203960 04/26/99	pSport1	56	1386	553	1331	731	731	2653	1	48	123
47	HAFBB15	203917 04/08/99	pBluescript SK-	57	1733	1	1733	186	186	2654	1	50	87
48	HAFBL14	203917 04/08/99	pBluescript SK-	58	2722	364	2722	542	542	2655	1	17	31
49	HAGAB62	203917 04/08/99	Uni-ZAP XR	59	1094	1	1094	82	82	2656	1	35	41
50	HAGAB83	203917 04/08/99	Uni-ZAP XR	60	1839	1	1839	35	35	2657	1	22	35
51	HAGAE84	203979 04/29/99	Uni-ZAP XR	61	1964	1	1964		205	2658	1	10	17
52	HAGAF75	203917 04/08/99	Uni-ZAP XR	62	1330	1	1330	106	106	2659	1	26	58

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53	HAGAK40	203917 04/08/99	Uni-ZAP XR	63	1504	1	1504	187	2660	1	15	16	19
54	HAGAU43	203918 04/08/99	Uni-ZAP XR	64	1828	1	1828	285	2661	1	20	21	32
55	HAGAZ36	203917 04/08/99	Uni-ZAP XR	65	1280	1	1280	128	2662	1	15	16	65
56	HAGBC57	203917 04/08/99	Uni-ZAP XR	66	1528	1	1528	358	2663	1	15	16	18
57	HAGBL31	203917 04/08/99	Uni-ZAP XR	67	1458	1	1458	27	2664	1	27	28	30
58	HAGBO09	203979 04/29/99	Uni-ZAP XR	68	1538	1	1538	59	2665	1	28	29	32
59	HAGBO12	203917 04/08/99	Uni-ZAP XR	69	557	1	557	54	2666	1	18	19	32
60	HAGBO51	203917 04/08/99	Uni-ZAP XR	70	1568	1	1568	132	2667	1	29	30	37
61	HAGBS89	203918 04/08/99	Uni-ZAP XR	71	1228	1	1228	98	2668	1	24	25	36
62	HAGBV06	203917 04/08/99	Uni-ZAP XR	72	1715	1	1715	98	2669	1	21	22	25
63	HAGBV25	203917 04/08/99	Uni-ZAP XR	73	1896	456	1846	725	2670	1			17

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64	HAGBV29	203917 04/08/99	Uni-ZAP XR	74	2075	8	2075	16	16	2671	1	21	65
65	HAGCC87	203917 04/08/99	Uni-ZAP XR	75	1592	479	1592	509	509	2672	1		9
66	HAGCH67	203917 04/08/99	Uni-ZAP XR	76	1324	1	1324	150	150	2673	1	30	41
67	HAGCI69	203917 04/08/99	Uni-ZAP XR	77	1214	1	1214		31	2674	1	17	66
68	HAGCT33	203917 04/08/99	Uni-ZAP XR	78	1338	1	1338	42	42	2675	1	26	39
69	HAGCZ70	203917 04/08/99	Uni-ZAP XR	79	1686	54	1686	91	91	2676	1	18	35
70	HAGDC73	203917 04/08/99	Uni-ZAP XR	80	1634	577	1634	744	744	2677	1	16	30
71	HAGDG84	203917 04/08/99	Uni-ZAP XR	81	2012	1	2012	297	297	2678	1	16	39
72	HAGDH85	203917 04/08/99	Uni-ZAP XR	82	1322	1	1322	45	45	2679	1	31	33
73	HAGDI69	203917 04/08/99	Uni-ZAP XR	83	941	1	941	110	110	2680	1		3
74	HAGDI53	203917 04/08/99	Uni-ZAP XR	84	1874	2	1874	130	130	2681	1	18	33

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75	HAGDJ56	203917 04/08/99	Uni-ZAP XR	85	643	1	643	81	81	2682	1	24	25	34
76	HAGDL51	203917 04/08/99	Uni-ZAP XR	86	1669	1	1669	218	218	2683	1	21	22	33
77	HAGDO70	203917 04/08/99	Uni-ZAP XR	87	948	144	945	338	338	2684	1	27	28	180
78	HAGDT30	203917 04/08/99	Uni-ZAP XR	88	2007	1	2007	198	198	2685	1	22	23	35
79	HAGDW68	203917 04/08/99	Uni-ZAP XR	89	1687	1	1687	90	90	2686	1	18	19	39
80	HAGDX84	203917 04/08/99	Uni-ZAP XR	90	952	1	952	223	223	2687	1			5
81	HAGEK37	203917 04/08/99	Uni-ZAP XR	91	1410	744	1388	932	932	2688	1	23	24	39
82	HAGEK86	203917 04/08/99	Uni-ZAP XR	92	1759	1	1759	165	165	2689	1	24	25	31
83	HAGEP30	203917 04/08/99	Uni-ZAP XR	93	810	1	810	120	120	2690	1	18	19	35
84	HAGEQ38	203917 04/08/99	Uni-ZAP XR	94	1675	1	1675	162	162	2691	1			17
85	HAGEQ67	203917 04/08/99	Uni-ZAP XR	95	1205	1	1205	226	226	2692	1	16	17	37

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86	HAGEU26	203917 04/08/99	Uni-ZAP XR	96	484	1	484	175	175	2693	1	20	53
87	HAGEW83	203917 04/08/99	Uni-ZAP XR	97	1069	1	1069	18	18	2694	1	24	31
88	HAGEX49	203917 04/08/99	Uni-ZAP XR	98	1475	373	1434	606	606	2695	1		16
89	HAGEX49	203917 04/08/99	Uni-ZAP XR	99	1475	373	1434	606	606	2696	1		16
90	HAGFD75	203979 04/29/99	Uni-ZAP XR	100	1067	1	1067	13	13	2697	1	16	61
91	HAGFF43	203917 04/08/99	Uni-ZAP XR	101	1844	1	1844	266	266	2698	1		5
92	HAGFJ67	PTA-181 06/07/99	Uni-ZAP XR	102	2122	1	2122	208	208	2699	1	26	92
93	HAGFM58	203917 04/08/99	Uni-ZAP XR	103	931	1	931	243	243	2700	1		11
94	HAGFT48	203979 04/29/99	Uni-ZAP XR	104	1683	633	1683		830	2701	1	22	120
95	HAGFU31	203917 04/08/99	Uni-ZAP XR	105	1270	1	1270	105	105	2702	1	21	44

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96	HAGFW13	203917 04/08/99	Uni-ZAP XR	106	911	1	911	183	183	2703	1	20	21	34
97	HAGHE85	203917 04/08/99	Uni-ZAP XR	107	1697	1	1697		342	2704	1			5
98	HAGHR18	203917 04/08/99	Uni-ZAP XR	108	1142	1	1142	28	28	2705	1	17	18	32
99	HAGIB90	203959 04/08/99	Uni-ZAP XR	109	976	1	976	59	59	2706	1	22	23	23
100	HAHEM51	203917 04/08/99	Uni-ZAP XR	110	658	1	658	185	185	2707	1	31	32	39
101	HAHSA76	203979 04/29/99	pBluescript	111	1588	425	1588	595	595	2708	1			1
102	HAHSD51	203979 04/29/99	pBluescript	112	593	1	593	85	85	2709	1	22	23	49
103	HAIBR76	PTA-791 09/27/99	Uni-ZAP XR	113	2355	1	1903	137	137	2710	1	18	19	72
104	HAIBT20	203917 04/08/99	Uni-ZAP XR	114	1437	1	1437	286	286	2711	1	25	26	35
105	HAIBV91	203979 04/29/99	Uni-ZAP XR	115	2050	1	2050	90	90	2712	1	17	18	34

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106	HAICE62	203917 04/08/99	Uni-ZAP XR	116	1968	38	1361	363	2713	1			5
107	HAICL90	203917 04/08/99	Uni-ZAP XR	117	754	1	754	140	2714	1	23	24	39
108	HAICV44	203917 04/08/99	Uni-ZAP XR	118	1324	1	1324	232	2715	1	23	24	26
109	HAIDP45	203979 04/29/99	Uni-ZAP XR	119	1182	1	1182	255	2716	1	15	16	25
110	HAIJAB88	203918 04/08/99	pCMV Sport 3.0	120	911	213	891	126	2717	1	14	15	92
111	HAIJAZ56	203917 04/08/99	pCMV Sport 3.0	121	1099	267	1099	300	2718	1	19	20	35
112	HAMFC67	203917 04/08/99	pCMV Sport 3.0	122	1379	1	1379	282	2719	1	29	30	72
113	HAMFQ38	203917 04/08/99	pCMV Sport 3.0	123	581	1	581	90	2720	1	25	26	37
114	HAMGG01	203917 04/08/99	pCMV Sport 3.0	124	1284	323	1259	644	2721	1			17
115	HANGB24	203917 04/08/99	pSport1	125	431	1	431	199	2722	1	21	22	66
116	HANKC93	203979 04/29/99	pSport1	126	876	1	876	198	2723	1	17	18	39

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117	HAPAD35	203918 04/08/99	Uni-ZAP XR	127	2157	1	2157	50	50	2724	1	17	34
118	HAPBR13	203917 04/08/99	Uni-ZAP XR	128	1585	1	1585	125	125	2725	1	22	52
119	HAPBU09	203917 04/08/99	Uni-ZAP XR	129	792	1	792	247	247	2726	1	19	45
120	HAPBU86	203917 04/08/99	Uni-ZAP XR	130	1351	255	1351	403	403	2727	1	23	35
121	HAPBU86	203917 04/08/99	Uni-ZAP XR	131	1371	255	1348	403	403	2728	1	23	35
122	HAPNU33	203979 04/29/99	Uni-ZAP XR	132	3397	1593	3376	1872	1872	2729	1	36	70
123	HAPNL62	203917 04/08/99	Uni-ZAP XR	133	2812	433	2239	701	701	2730	1	41	102
124	HAPNO50	203917 04/08/99	Uni-ZAP XR	134	1145	1	1134	205	205	2731	1	20	36
125	HAPNY10	203917 04/08/99	Uni-ZAP XR	135	1509	1	1509		33	2732	1	40	44
126	HAPPW83	203979 04/29/99	Uni-ZAP XR	136	1365	35	1365	66	66	2733	1		10
127	HAPQJ73	203917 04/08/99	Uni-ZAP XR	137	1857	1	1857		286	2734	1		16

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128	HAPQK26	203917 04/08/99	Uni-ZAP XR	138	1810	1	1810	300	2735	1		12
129	HAPQU71	203917 04/08/99	Uni-ZAP XR	139	1879	1264	1807	1324	2736	1	20	53
130	HAPQU71	203917 04/08/99	Uni-ZAP XR	140	1879	1264	1807	1324	2737	1	20	53
131	HAPQW18	203917 04/08/99	Uni-ZAP XR	141	556	1	556	20	2738	1	29	37
132	HAPQX44	203918 04/08/99	Uni-ZAP XR	142	1632	285	1623	515	2739	1		17
133	HAPRK55	203917 04/08/99	Uni-ZAP XR	143	1380	1	1380	172	2740	1	28	38
134	HAPSH37	203979 04/29/99	Uni-ZAP XR	144	1380	1	1380	251	2741	1	21	56
135	HAQBG57	203917 04/08/99	Uni-ZAP XR	145	1048	1	1031	170	2742	1	15	56
136	HAQBY85	203917 04/08/99	Uni-ZAP XR	146	1882	1	1882	192	2743	1	22	33
137	HAQBZ15	203959 04/26/99	Uni-ZAP XR	147	2254	521	2121	671	2744	1	21	51
138	HAQCE18	203917 04/08/99	Uni-ZAP XR	148	284	1	284	79	2745	1		10

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139	HAQCF94	203917 04/08/99	Uni-ZAP XR	149	1615	7	1495	89	89	2746	1		25
140	HARAE26	203917 04/08/99	pBluescript SK-	150	1245	1	1245	225	225	2747	1	30	97
141	HARAT69	203917 04/08/99	pBluescript SK-	151	1961	189	1961	422	422	2748	1	21	334
142	HARAZ81	203918 04/08/99	pBluescript SK-	152	936	242	936	435	435	2749	1	18	33
143	HASAU26	203979 04/29/99	Uni-ZAP XR	153	3853	1557	2090	1767	1767	2750	1	25	50
144	HASAX57	203917 04/08/99	Uni-ZAP XR	154	1357	1	1357	136	136	2751	1	30	38
145	HASAY07	203917 04/08/99	Uni-ZAP XR	155	810	1	810	699	699	2752	1		5
146	HATAE01	203917 04/08/99	Uni-ZAP XR	156	811	1	811	76	76	2753	1	27	30
147	HATAG52	203917 04/08/99	Uni-ZAP XR	157	1010	1	1010	154	154	2754	1	22	29
148	HATAL05	203979 04/29/99	Uni-ZAP XR	158	1199	1	1199	134	134	2755	1		45
149	HATBA90	203917 04/08/99	Uni-ZAP XR	159	434	1	434	97	97	2756	1	23	38

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
150	HATBM71	203917 04/08/99	Uni-ZAP XR	160	716	1	716	196	2757	1	36	37	38
151	HATCF80	203918 04/08/99	Uni-ZAP XR	161	2503	506	2485	620	2758	1	19	20	52
152	HATC167	203979 04/29/99	Uni-ZAP XR	162	1108	1	1108	158	2759	1	18	19	31
153	HATCJ27	203979 04/29/99	Uni-ZAP XR	163	930	1	930	237	2760	1			15
154	HATCS79	203979 04/29/99	Uni-ZAP XR	164	794	1	794	259	2761	1	16	17	40
155	HATCX03	PTA-794 09/27/99	Uni-ZAP XR	165	1145	1	1145	196	2762	1	10	11	45
156	HATDE03	203917 04/08/99	Uni-ZAP XR	166	1927	282	1276	428	2763	1	18	19	46
157	HATDF41	203917 04/08/99	Uni-ZAP XR	167	1316	729	1292	1066	2764	1	15	16	31
158	HATDH23	203917 04/08/99	Uni-ZAP XR	168	1340	1	1340	98	2765	1			2
159	HATDH55	203979 04/29/99	Uni-ZAP XR	169	2097	1	2097	50	2766	1			33

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
160	HATDO84	203917 04/08/99	Uni-ZAP XR	170	958	1	958	75	2767	1	22	23	32
161	HATDU01	203979 04/29/99	Uni-ZAP XR	171	1302	1	1302	23	2768	1	16	17	20
162	HATDW05	203917 04/08/99	Uni-ZAP XR	172	558	1	558	232	2769	1	13	14	46
163	HATEF13	203917 04/08/99	Uni-ZAP XR	173	1679	1	1679	139	2770	1	24	25	37
164	HATEF64	203917 04/08/99	Uni-ZAP XR	174	1335	1	1335	154	2771	1			28
165	HATEH40	203917 04/08/99	Uni-ZAP XR	175	563	1	563	230	2772	1	20	21	32
166	HATEI22	PTA-181 06/07/99	Uni-ZAP XR	176	2418	2100	2394	2203	2773	1	33	34	41
167	HAUCC84	203979 04/29/99	Uni-ZAP XR	177	1308	25	1279	265	2774	1	31	32	82
168	HAWAS41	PTA-791 09/27/99	pBluescript SK-	178	1009	1	1009	140	2775	1	25	26	39
169	HAWBA65	203917 04/08/99	pBluescript SK-	179	561	1	561	228	2776	1	16	17	45

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
170	HBAGH64	203917 04/08/99	pSport1	180	1718	1	1718	645	2777	1			1
171	HBAGV01	PTA-181 06/07/99	pSport1	181	422	1	422	17	2778	1	22	23	30
172	HBAMC50	PTA-791 09/27/99	pSport1	182	2234	1	2234	101	2779	1	23	24	47
173	HBAMC57	203917 04/08/99	pSport1	183	307	1	307	168	2780	1	8	9	10
174	HBBBA42	203917 04/08/99	pCMVSPORT 1	184	1758	585	1758	646	2781	1	14	15	41
175	HBBB08	203917 04/08/99	pCMVSPORT 1	185	1056	1	1056	805	2782	1			11
176	HBBBE83	203917 04/08/99	pCMVSPORT 1	186	470	1	470	106	2783	1	17	18	63
177	HBBMA11	203917 04/08/99	pCMVSPORT 1	187	932	1	932	199	2784	1	11	12	59
178	HBCAK10	203917 04/08/99	Uni-ZAP XR	188	1953	1	1953	96	2785	1			10
179	HBCAK80	203917 04/08/99	Uni-ZAP XR	189	1008	1	1008	124	2786	1	17	18	39

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT ³ NT of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
180	HBCAQ48	203917 04/08/99	Uni-ZAP XR	190	421	1	421	320	2787	1	30	31	34
181	HBCAY17	203917 04/08/99	Uni-ZAP XR	191	1086	1	1086	281	2788	1	22	23	31
182	HBCGE46	203917 04/08/99	pSport1	192	1038	1	1038	225	2789	1	21	22	46
183	HBGBA14	203917 04/08/99	Uni-ZAP XR	193	765	267	718	298	2790	1	24	25	36
184	HBGBE75	PTA-794 09/27/99	Uni-ZAP XR	194	668	1	646	161	2791	1	18	19	55
185	HBGBP22	203917 04/08/99	Uni-ZAP XR	195	893	68	893	109	2792	1			7
186	HBGFQ34	203917 04/08/99	Uni-ZAP XR	196	519	1	519	86	2793	1	21	22	37
187	HBGML95	203917 04/08/99	Uni-ZAP XR	197	453	1	453		2794	1	27	28	113
188	HBGMT60	203917 04/08/99	Uni-ZAP XR	198	415	1	414	163	2795	1	24	25	38
189	HBHAA53	203917 04/08/99	Uni-ZAP XR	199	674	1	674	53	2796	1	28	29	162

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT ³ of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
190	HBIAU43	203959 04/26/99	Uni-ZAP XR	200	1246	1	1246	202	2797	1	15	16
191	HBIAW38	203917 04/08/99	Uni-ZAP XR	201	1510	1	1510	17	2798	1	18	30
192	HBIBB20	PTA-794 09/27/99	Uni-ZAP XR	202	1259	1	1259		2799	1	30	71
193	HBIBF26	203979 04/29/99	Uni-ZAP XR	203	2101	591	2089	655	2800	1	19	183
194	HBIBM33	203979 04/29/99	Uni-ZAP XR	204	725	1	725		2801	1	8	24
195	HBIBN67	203917 04/08/99	Uni-ZAP XR	205	926	1	926	71	2802	1	22	38
196	HBIBQ69	203917 04/08/99	Uni-ZAP XR	206	1248	1	1248		2803	1	28	35
197	HBIBR38	203917 04/08/99	Uni-ZAP XR	207	824	1	824		2804	1	13	15
198	HBIBR61	203917 04/08/99	Uni-ZAP XR	208	2206	1	2206		2805	1		2
199	HBIBS33	203917 04/08/99	Uni-ZAP XR	209	1421	1	1421	234	2806	1		23

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
200	HBIBT13	203917 04/08/99	Uni-ZAP XR	210	630	1	630	65	2807	1	21	22	33
201	HBIBZ20	203917 04/08/99	Uni-ZAP XR	211	1408	1	1408	146	2808	1			18
202	HBICB80	203917 04/08/99	Uni-ZAP XR	212	785	1	785	190	2809	1	18	19	20
203	HBJAC40	203979 04/29/99	Uni-ZAP XR	213	1767	184	1729	329	2810	1			13
204	HBJAV36	203917 04/08/99	Uni-ZAP XR	214	781	1	781	274	2811	1			4
205	HBJAY14	203917 04/08/99	Uni-ZAP XR	215	2115	1	2115	90	2812	1	25	26	39
206	HBJBQ69	203917 04/08/99	Uni-ZAP XR	216	1148	1	1148	173	2813	1			8
207	HBIBR40	203917 04/08/99	Uni-ZAP XR	217	1131	1	1131	50	2814	1			40
208	HBJCH46	203917 04/08/99	Uni-ZAP XR	218	1117	1	1117	146	2815	1	22	23	62
209	HBJCR17	203979 04/29/99	Uni-ZAP XR	219	963	1	935	55	2816	1	18	19	36
210	HBJCS26	203979 04/29/99	Uni-ZAP XR	220	2884	1	1997	369	2817	1	15	16	33

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
211	HBJCW24	203917 04/08/99	Uni-ZAP XR	221	1014	1	1014	323	2818	1	23	24	26
212	HBJDC57	203917 04/08/99	Uni-ZAP XR	222	743	1	743	173	2819	1			9
213	HBJDR18	203917 04/08/99	Uni-ZAP XR	223	1118	1	1118	265	2820	1	16	17	17
214	HBJDR83	203917 04/08/99	Uni-ZAP XR	224	1485	1	1485	141	2821	1	23	24	25
215	HBJEE51	203917 04/08/99	Uni-ZAP XR	225	1249	1	1249	56	2822	1			18
216	HBJEL21	PTA-181 06/07/99	Uni-ZAP XR	226	2082	1	2082	48	2823	1	21	22	45
217	HBJFH84	203959 04/26/99	Uni-ZAP XR	227	2294	1580	2294	1663	2824	1			7
218	HBJFJ14	203979 04/29/99	Uni-ZAP XR	228	1255	1	1254	264	2825	1	10	11	14
219	HBJFJ26	PTA-792 09/27/99	Uni-ZAP XR	229	895	1	895	180	2826	1	20	21	59
219	HBJFJ26	PTA-792 09/27/99	Uni-ZAP XR	2598	2178	672	1552	851	5195	1	20	21	59

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	5' NT 3' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF	
220	HBJF83	203917 04/08/99	Uni-ZAP XR	230	1208	1	1208	246	246	2827	1	30	34
221	HBJF83	203917 04/08/99	Uni-ZAP XR	231	1165	1	1165	246	246	2828	1	30	34
222	HBJFP47	203917 04/08/99	Uni-ZAP XR	232	1021	335	1021	423	423	2829	1	27	38
223	HBJFR77	203917 04/08/99	Uni-ZAP XR	233	1661	190	1661	354	354	2830	1	27	31
224	HBJFU30	203917 04/08/99	Uni-ZAP XR	234	477	1	477		14	2831	1	22	77
225	HBJFX41	203917 04/08/99	Uni-ZAP XR	235	779	1	779	181	181	2832	1		13
226	HBJHO83	203917 04/08/99	Uni-ZAP XR	236	972	1	972	189	189	2833	1	34	67
227	HBJHS92	203917 04/08/99	Uni-ZAP XR	237	1885	64	1885	121	121	2834	1		18
228	HBJHT01	203917 04/08/99	Uni-ZAP XR	238	1251	1	1251	200	200	2835	1	20	21
229	HBJHT01	203917 04/08/99	Uni-ZAP XR	239	1252	1	1252	193	193	2836	1	21	47
230	HBJHW06	203917 04/08/99	Uni-ZAP XR	240	1256	224	1256	443	443	2837	1	14	35

Gene No.	eDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
231	HBIR14	203917 04/08/99	Uni-ZAP XR	241	2858	1522	2809	1800	2838	1	12	13	19
232	HBIIA26	203917 04/08/99	Uni-ZAP XR	242	1363	1	1257	236	2839	1	15	16	29
233	HBIIJX02	203917 04/08/99	Uni-ZAP XR	243	724	1	724	228	2840	1	20	21	36
234	HBIIJH78	203917 04/08/99	Uni-ZAP XR	244	1099	128	1099	284	2841	1			18
235	HBIND04	203917 04/08/99	Uni-ZAP XR	245	1703	98	1701		309	2842	1	18	348
236	HBIND57	203917 04/08/99	Uni-ZAP XR	246	1120	1	1120	20	2843	1	28	29	34
237	HBKDF66	203917 04/08/99	pSport1	247	1832	1	1832		222	2844	1	17	29
238	HBKEA94	203917 04/08/99	pSport1	248	1247	1	1247	56	56	2845	1	30	58
239	HBKEE60	203917 04/08/99	pSport1	249	621	1	621		47	2846	1	14	82
240	HBKEI41	203917 04/08/99	pSport1	250	866	1	866		441	2847	1	21	123
241	HBMBD51	203979 04/29/99	pBluescript	251	3057	242	2779	413	2848	1	26	27	72

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
242	HBMDB73	203917 04/08/99	pBluescript	252	5279	4063	5091	4310	2849	1			13
243	HBMBE33	203917 04/08/99	pBluescript	253	931	1	931	45	2850	1			37
244	HBMIBM17	203917 04/08/99	pBluescript	254	1162	1	1162	31	2851	1	22	23	37
245	HBMCL59	203917 04/08/99	pBluescript	255	807	1	807	69	2852	1	16	17	31
246	HBMCM96	203917 04/08/99	pBluescript	256	2284	2	2284	100	2853	1	15	16	20
247	HBMQC74	PTA-181 06/07/99	pBluescript	257	4043	1563	3480	1815	2854	1			20
248	HBMQC74	PTA-181 06/07/99	pBluescript	258	4044	1563	3480	1815	2855	1			20
249	HBMCT40	203917 04/08/99	pBluescript	259	711	1	711	184	2856	1	19	20	82
250	HBMMDM08	203979 04/29/99	pBluescript	260	1113	629	692	505	2857	1	28	29	156
251	HBMMSN62	203917 04/08/99	Uni-ZAP XR	261	982	1	973	193	2858	1	22	23	31

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	NT Total Seq.	5' NT 3' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
252	HBMSO30	203959 04/26/99	Uni-ZAP XR	262	778	1	778	172	2859	1	16	17	17
253	HBMTM50	203917 04/08/99	Uni-ZAP XR	263	1234	1	1234	44	2860	1			4
254	HBMUD59	203917 04/08/99	Uni-ZAP XR	264	876	1	876	270	2861	1	21	22	126
255	HBMU10	203917 04/08/99	Uni-ZAP XR	265	822	1	822	249	2862	1	28	29	39
256	HBMUJ48	203917 04/08/99	Uni-ZAP XR	266	513	1	513	180	2863	1	17	18	24
257	HBMUR39	203917 04/08/99	Uni-ZAP XR	267	888	1	888	135	2864	1	18	19	23
258	HBMVVF65	203917 04/08/99	Uni-ZAP XR	268	1064	175	1063	179	2865	1	16	17	38
259	HBMVVF65	203917 04/08/99	Uni-ZAP XR	269	1282	378	1265	382	2866	1	16	17	38
260	HBMWVC39	203917 04/08/99	Uni-ZAP XR	270	1154	1	1154		2867	1	16	17	18
261	HBMWJ92	203917 04/08/99	Uni-ZAP XR	271	1810	1	1810	82	2868	1	17	18	40

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Pep	5' NT of First ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
262	HBWWS2	PTA-791 09/27/99	Uni-ZAP XR	272	1345	1	1345	19	2869	1	16	35
263	HBMXE34	203917 04/08/99	Uni-ZAP XR	273	1831	906	1831	301	2870	1		11
264	HBMXG01	203917 04/08/99	Uni-ZAP XR	274	1139	1	1139		2871	1	13	24
265	HBMXG76	203917 04/08/99	Uni-ZAP XR	275	618	1	618	71	2872	1	20	26
266	HBMXM05	203979 04/29/99	Uni-ZAP XR	276	1121	1	1119	20	2873	1	30	37
267	HBMXW83	203917 04/08/99	Uni-ZAP XR	277	1233	1	1233	16	2874	1	33	39
268	HBNAE74	203917 04/08/99	Uni-ZAP XR	278	426	1	426		2875	1		1
269	HBNA16	203979 04/29/99	Uni-ZAP XR	279	3244	2578	3231	2711	2876	1	35	148
270	HBNAZ35	203917 04/08/99	Uni-ZAP XR	280	894	295	894	519	2877	1		7
271	HBODK40	203979 04/29/99	pSport1	281	1778	1	1599	338	2878	1		10

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
272	HBODV76	PTA-181 06/07/99	pSport1	282	2498	1	2498	303	303	2879	1			8
273	HBPAD89	203917 04/08/99	Uni-ZAP XR	283	195	1	195	74	74	2880	1	14	15	15
274	HBPAPF39	203979 04/29/99	Uni-ZAP XR	284	1262	1	1262	119	119	2881	1			18
275	HBQAC45	203917 04/08/99	Lambda ZAP II	285	1371	1	1371		292	2882	1			7
276	HBQAC72	203917 04/08/99	Lambda ZAP II	286	2345	1	2345	741	741	2883	1	29	30	77
277	HBQAE37	203917 04/08/99	Lambda ZAP II	287	1015	1	1015	208	208	2884	1			37
278	HBSAJ63	203917 04/08/99	Uni-ZAP XR	288	1708	1079	1587		1256	2885	1	20	21	62
279	HBSAJ63	203917 04/08/99	Uni-ZAP XR	289	540	1	540		183	2886	1	20	21	62
280	HBSDD24	203917 04/08/99	Uni-ZAP XR	290	1494	710	1494	833	833	2887	1	21	22	42
281	HBWBD25	203917 04/08/99	ZAP Express	291	1504	1	1504	182	182	2888	1	22	23	48

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
282	HBXAS93	203917 04/08/99	ZAP Express	292	1759	1	1759	215	215	2889	1			11
283	HBXAT27	203959 04/26/99	ZAP Express	293	2406	958	2385		1097	2890	1	17	18	40
284	HBXAW57	203917 04/08/99	ZAP Express	294	1377	1	1377	152	152	2891	1	30	31	36
285	HBXBI29	203979 04/29/99	ZAP Express	295	2043	1	2043	87	87	2892	1	27	28	28
286	HBXBM24	203917 04/08/99	ZAP Express	296	713	1	713		85	2893	1	30	31	46
287	HBXBM78	203917 04/08/99	ZAP Express	297	2791	2044	2791	2163	2163	2894	1	21	22	119
288	HBXCD59	PTA-181 06/07/99	ZAP Express	298	2017	1	2017	165	165	2895	1	22	23	65
289	HBXCE43	203917 04/08/99	ZAP Express	299	1273	1	1273	349	349	2896	1			4
290	HBXCG08	203917 04/08/99	ZAP Express	300	1879	1	1879	260	260	2897	1	13	14	17
291	HBXCM52	203917 04/08/99	ZAP Express	301	2520	355	2513	366	366	2898	1	14	15	37

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First AA of Secreted Portion	Last of AA of ORF
292	HBXCQ03	203917 04/08/99	ZAP Express	302	968	1	968	231	2899	1	30	31	55
293	HBXCR15	203917 04/08/99	ZAP Express	303	1235	1	1235	158	2900	1	22	23	33
294	HBXDL52	PTA-791 09/27/99	ZAP Express	304	2311	885	2307	1040	2901	1			8
295	HBXDL52	PTA-791 09/27/99	ZAP Express	305	2311	885	2307	1040	2902	1			8
296	HBXDN08	203917 04/08/99	ZAP Express	306	1057	1	1057	67	2903	1	22	23	24
297	HBXDN65	203918 04/08/99	ZAP Express	307	1948	1	1948	187	2904	1	25	26	36
298	HBXFA04	203959 04/26/99	ZAP Express	308	622	1	617	411	2905	1	20	21	41
299	HBXFE64	203917 04/08/99	ZAP Express	309	1647	1	1647	15	2906	1	17	18	33
300	HBXFI33	203917 04/08/99	ZAP Express	310	598	1	598	124	2907	1	21	22	123
301	HBXFP72	203917 04/08/99	ZAP Express	311	1467	1	1467	122	2908	1	26	27	37

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	NT of Clone Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
302	HBXFS1	203917 04/08/99	ZAP Express	312	1551	1	1551	20	20	2909	1			16
303	HBXFW01	203979 04/29/99	ZAP Express	313	1252	1	1252	125	125	2910	1	1	2	182
304	HBXGE12	203917 04/08/99	ZAP Express	314	2516	1	2516		52	2911	1	32	33	120
304	HBXGE12	203917 04/08/99	ZAP Express	2599	2469	1	2469		31	5196	1	32	33	120
305	HBXGL91	PTA-1838 05/09/00	ZAP Express	315	2483	1	2483	80	80	2912	1	34	35	36
306	HBXGM24	203917 04/08/99	ZAP Express	316	1663	1	1663	268	268	2913	1			15
307	HBZA175	203917 04/08/99	pSport1	317	1531	1	1531		260	2914	1	21	22	48
308	HCABP33	PTA-181 06/07/99	Uni-ZAP XR	318	223	1	223	9	9	2915	1	29	30	37
309	HCABW10	203918 04/08/99	Uni-ZAP XR	319	2015	1	2015	76	76	2916	1	24	25	40
310	HCACZ65	203979 04/29/99	Uni-ZAP XR	320	1964	1	1964	30	30	2917	1	30	31	36

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
321	HCDBW67	203917 04/08/99	Uni-ZAP XR	331	677	409	677		498	2928	1	10	11	44
322	HCDBZ31	203917 04/08/99	Uni-ZAP XR	332	858	21	858		565	2929	1	7	8	14
323	HCDCB03	203917 04/08/99	Uni-ZAP XR	333	1538	1	1538	32	32	2930	1	35	36	139
324	HCDC E51	203917 04/08/99	Uni-ZAP XR	334	1085	1	1085	46	46	2931	1			2
325	HCDCI42	203979 04/29/99	Uni-ZAP XR	335	1046	1	1046	216	216	2932	1			9
326	HCDD B15	203917 04/08/99	Uni-ZAP XR	336	1422	514	1202	668	668	2933	1			12
327	HCDDX81	203917 04/08/99	Uni-ZAP XR	337	419	1	419	274	274	2934	1	15	16	48
328	HCDDY28	PTA-793 09/27/99	Uni-ZAP XR	338	1691	1	1691	75	75	2935	1	28	29	31
329	HCDEB19	203917 04/08/99	Uni-ZAP XR	339	1744	1	1744		266	2936	1	31	32	48
330	HCDE N46	203917 04/08/99	Uni-ZAP XR	340	957	1	957	83	83	2937	1	33	34	59

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of Signal	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
331	HCDSE69	203917 04/08/99	Uni-ZAP XR	341	1032	1	1032	271	2938	1			1
332	HCE1D45	203917 04/08/99	Uni-ZAP XR	342	1390	1	1390	101	2939	1	28	29	44
333	HCE1N56	203917 04/08/99	Uni-ZAP XR	343	1590	1	1587	106	2940	1	37	38	38
334	HCE1T53	203959 04/26/99	Uni-ZAP XR	344	1461	1	1461	23	2941	1	21	22	40
335	HCE1Y27	203917 04/08/99	Uni-ZAP XR	345	1651	1	1651	374	2942	1	10	11	133
336	HCE1Y34	203917 04/08/99	Uni-ZAP XR	346	1720	1	1720		2943	1			8
337	HCE2B57	203917 04/08/99	Uni-ZAP XR	347	1247	1	1247		2944	1			9
338	HCE2E47	PTA-792 09/27/99	Uni-ZAP XR	348	1830	1	1830		2945	1	21	22	29
339	HCE2I23	203917 04/08/99	Uni-ZAP XR	349	977	1	977	56	2946	1	32	33	90
340	HCE2P90	203917 04/08/99	Uni-ZAP XR	350	1893	1	1893		2947	1	16	17	42

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
341	HCE3A54	203917 04/08/99	Uni-ZAP XR	351	847	1	847	51	2948	1	18	19	42
342	HCE3C46	203917 04/08/99	Uni-ZAP XR	352	1230	1	1230	290	2949	1			6
343	HCE3D58	PTA-791 09/27/99	Uni-ZAP XR	353	2575	501	2575	682	2950	1	18	19	66
344	HCE3D89	203917 04/08/99	Uni-ZAP XR	354	1100	17	1100	73	2951	1	33	34	87
345	HCE3J43	203917 04/08/99	Uni-ZAP XR	355	2129	836	2087	1075	2952	1			22
346	HCE3L04	203918 04/08/99	Uni-ZAP XR	356	709	1	709	221	2953	1	16	17	46
347	HCE3N23	203917 04/08/99	Uni-ZAP XR	357	3145	595	3114	789	2954	1	14	15	51
348	HCE3R01	203917 04/08/99	Uni-ZAP XR	358	2746	1245	2736	1386	2955	1	32	33	66
349	HCE3R01	203917 04/08/99	Uni-ZAP XR	359	2736	1245	2736	1386	2956	1	32	33	66
350	HCE3R01	203917 04/08/99	Uni-ZAP XR	360	2736	1245	2736	1386	2957	1	32	33	66

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Sig Secreted of Portion	Last of AA of ORF
362	HCEDJ05	203917 04/08/99	Uni-ZAP XR	372	2396	1	2396	67	2969	1	23	24	46
363	HCEDJ26	203917 04/08/99	Uni-ZAP XR	373	1984	34	1984		2970	1			1
364	HCEDN07	203979 04/29/99	Uni-ZAP XR	374	1425	1	1425	126	2971	1	16	17	40
365	HCEDO17	203917 04/08/99	Uni-ZAP XR	375	1953	255	1953		2972	1	11	12	34
366	HCEEG48	PTA-794 09/27/99	Uni-ZAP XR	376	996	1	996		2973	1			21
367	HCEEM33	203917 04/08/99	Uni-ZAP XR	377	1165	1	1165	244	2974	1	26	27	35
368	HCEEP16	203917 04/08/99	Uni-ZAP XR	378	1381	1	1381	276	2975	1			1
369	HCEER60	203917 04/08/99	Uni-ZAP XR	379	775	1	775	18	2976	1	24	25	28
370	HCEFA10	203917 04/08/99	Uni-ZAP XR	380	1474	1	1474		2977	1			4
371	HCEFA50	203917 04/08/99	Uni-ZAP XR	381	2100	1	2100	223	2978	1			1

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
372	HCEFA94	203917 04/08/99	Uni-ZAP XR	382	1607	1	1607	232	232	2979	1	8	9	17
373	HCEFC27	203917 04/08/99	Uni-ZAP XR	383	1432	1	1432	224	224	2980	1	22	23	38
374	HCEFG93	203917 04/08/99	Uni-ZAP XR	384	2280	1	2280		166	2981	1			13
375	HCEFH31	203917 04/08/99	Uni-ZAP XR	385	2261	99	2241	260	260	2982	1	31	32	59
376	HCEFK56	PTA-791 09/27/99	Uni-ZAP XR	386	2455	1	2455		79	2983	1	20	21	670
377	HCEFN51	203917 04/08/99	Uni-ZAP XR	387	639	1	639	113	113	2984	1	18	19	45
378	HCEGG08	203979 04/29/99	Uni-ZAP XR	388	2534	979	2025	1114	1114	2985	1	15	16	27
379	HCEGH74	203979 04/29/99	Uni-ZAP XR	389	1124	1	1124	203	203	2986	1	20	21	56
380	HCEGK81	203979 04/29/99	Uni-ZAP XR	390	1786	1	1786	72	72	2987	1	25	26	60
381	HCEGS49	203918 04/08/99	Uni-ZAP XR	391	1688	1	1688	145	145	2988	1	24	25	61

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
382	HCEGU75	203917 04/08/99	Uni-ZAP XR	392	1487	1	1487	84	84	2989	1		31
383	HCEGY33	203917 04/08/99	Uni-ZAP XR	393	2834	1	2803	174	174	2990	1		15
384	HCEHW24	203917 04/08/99	Uni-ZAP XR	394	1380	1	1380	29	29	2991	1		6
385	HCEJL08	203917 04/08/99	Uni-ZAP XR	395	1140	1	1110	175	175	2992	1	20	149
386	HCEJP93	203917 04/08/99	Uni-ZAP XR	396	1305	1	1305	20	20	2993	1		23
387	HCELB04	203979 04/29/99	Uni-ZAP XR	397	1962	1	1962		108	2994	1	18	58
388	HCEMA08	203959 04/26/99	Uni-ZAP XR	398	1880	1	1880	37	37	2995	1	22	60
389	HCENN67	203917 04/08/99	Uni-ZAP XR	399	878	1	878		56	2996	1	15	53
390	HCENQ22	203917 04/08/99	Uni-ZAP XR	400	2320	1	2320	263	263	2997	1	31	35
391	HCEOF01	203917 04/08/99	Uni-ZAP XR	401	1669	1	1669	242	242	2998	1	32	38
392	HCEOF01	203917 04/08/99	Uni-ZAP XR	402	1668	1	1668	242	242	2999	1	32	38

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID: NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of Sig Pep	Last AA of Sig Pep	First of AA Secreted of Portion	Last AA of ORF
393	HCEON94	203917 04/08/99	Uni-ZAP XR	403	1677	477	1677	603	3000	1	14	15	27
394	HCEOQ67	203979 04/29/99	Uni-ZAP XR	404	992	1	992	18	3001	1	29	30	32
395	HCEOV48	PTA-181 06/07/99	Uni-ZAP XR	405	2150	1376	2150	1563	3002	1	22	23	59
396	HCEPC90	203917 04/08/99	Uni-ZAP XR	406	939	1	939	232	3003	1	33	34	40
397	HCEPO08	203917 04/08/99	Uni-ZAP XR	407	641	1	641	190	3004	1			2
398	HCEB03	203917 04/08/99	pBluescript	408	883	1	883	228	3005	1	20	21	28
399	HCESK44	203917 04/08/99	pBluescript	409	1350	1	1350	223	3006	1			8
400	HCETE08	203917 04/08/99	pBluescript	410	2541	201	2541	227	3007	1	17	18	20
401	HCE TL19	203917 04/08/99	pBluescript	411	647	1	647	114	3008	1	33	34	40
402	HCEWD90	203917 04/08/99	Uni-ZAP XR	412	1203	210	635	223	3009	1			4

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
403	HCEWE62	203917 04/08/99	Uni-ZAP XR	413	1561	1	1561	158	3010	1	20	21	38
404	HCEZW14	203917 04/08/99	Uni-ZAP XR	414	2071	1	2071	141	3011	1			1
405	HCFAT42	203917 04/08/99	pSport1	415	990	1	990	147	3012	1	35	36	65
406	HCFAT66	203917 04/08/99	pSport1	416	1780	1	1780	119	3013	1	27	28	40
407	HCFBA30	203917 04/08/99	pSport1	417	869	1	869	120	3014	1			15
408	HCFBM77	203917 04/08/99	pSport1	418	929	1	929	93	3015	1	22	23	39
409	HCFBV39	203959 04/26/99	pSport1	419	1759	890	1759	419	3016	1			3
410	HCFCB72	203917 04/08/99	pSport1	420	1718	1	1718	92	3017	1	31	32	36
411	HCFCG91	PTA-794 09/27/99	pSport1	421	2927	1720	2921	1854	3018	1	33	34	295
412	HCFCM81	203979 04/29/99	pSport1	422	1677	1	1677	390	3019	1	28	29	36

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last of AA of ORF
413	HCFCW39	203979 04/29/99	pSport1	423	1343	1	1343	32	3020	1	14	15	37
414	HCFCY49	203917 04/08/99	pSport1	424	1523	1	1523	53	3021	1	27	28	34
415	HCFCDD18	203917 04/08/99	pSport1	425	1691	57	1691	191	3022	1	27	28	34
416	HCFLB10	203917 04/08/99	pSport1	426	870	168	870		3023	1	5	6	6
417	HCFLC03	203917 04/08/99	pSport1	427	1622	1	1591		3024	1	13	14	16
418	HCFLJ52	203917 04/08/99	pSport1	428	1482	1	1482	121	3025	1	32	33	319
418	HCFLJ52	203917 04/08/99	pSport1	2600	1464	1	1443		5197	1	15	16	101
419	HCFLI33	203917 04/08/99	pSport1	429	1041	1	1041	78	3026	1	19	20	30
420	HCFLP48	203917 04/08/99	pSport1	430	1783	1	1783		3027	1	28	29	60
421	HCFLQ12	203917 04/08/99	pSport1	431	2208	119	2208	167	3028	1	36	37	49
422	HCFLY20	203917 04/08/99	pSport1	432	1097	27	845	385	3029	1			8

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
423	HCFLY20	203917 04/08/99	pSport1	433	1123	38	857	95	95	3030	1	1	2	158
424	HCFMA39	203917 04/08/99	pSport1	434	382	1	382	217	217	3031	1	21	22	42
425	HCFLM40	203917 04/08/99	pSport1	435	750	1	750		321	3032	1	10	11	22
426	HCFLM07	203917 04/08/99	pSport1	436	1238	1	1238	110	110	3033	1	27	28	94
427	HCFLM75	PTA-794 09/27/99	pSport1	437	829	1	829	112	112	3034	1	23	24	32
428	HCFLM16	203917 04/08/99	pSport1	438	802	1	802	354	354	3035	1	27	28	28
429	HCFLM88	203917 04/08/99	pSport1	439	1148	1	1148	191	191	3036	1	19	20	49
430	HCFLM40	203917 04/08/99	pSport1	440	1095	1	1095	448	448	3037	1	22	23	31
431	HCFLM50	203917 04/08/99	pSport1	441	1393	1	1393		335	3038	1			25
432	HCFLN16	203917 04/08/99	pSport1	442	1597	1	1597	183	183	3039	1	30	31	46

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ NO: X	Total NT Seq.	5' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
433	HCFNN75	203917 04/08/99	pSport1	443	1641	1	1641	241	3040	1	19	20	49
434	HCFOG17	203917 04/08/99	pSport1	444	1470	1	1470	27	3041	1	28	29	34
435	HCFOH93	203917 04/08/99	pSport1	445	604	1	604	3	3042	1	23	24	31
436	HCGBA15	203917 04/08/99	pSport1	446	981	1	981	83	3043	1	26	27	32
437	HCHAC68	203917 04/08/99	pSport1	447	1653	1	1653	201	3044	1	33	34	216
438	HCHBP49	PTA-793 09/27/99	pSport1	448	939	1	939	234	3045	1	11	12	36
439	HCHCA79	203917 04/08/99	pSport1	449	737	1	737	267	3046	1	18	19	59
440	HCHCG33	PTA-181 06/07/99	pSport1	450	2286	549	2286	576	3047	1	26	27	55
441	HCHMY57	203917 04/08/99	pSport1	451	1875	1	1875	168	3048	1	48	49	347
442	HCHOC06	203917 04/08/99	pSport1	452	518	1	518	341	3049	1			28

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
443	HCHOY32	203917 04/08/99	pSport1	453	1413	25	1393	24	3050	1	2	3	410
444	HCHQB93	203917 04/08/99	pSport1	454	2163	996	2163	1321	3051	1	47	48	66
445	HCHQB93	203917 04/08/99	pSport1	455	2163	996	2163	1321	3052	1	47	48	66
446	HCLBK61	203979 04/29/99	Lambda ZAP II	456	1588	574	1563		3053	1	18	19	29
447	HCLCU75	PTA-181 06/07/99	Lambda ZAP II	457	682	1	682		3054	1	23	24	83
448	HCMSA37	203917 04/08/99	Uni-ZAP XR	458	907	1	907	90	3055	1	26	27	61
449	HCMIS07	203917 04/08/99	Uni-ZAP XR	459	1508	1	1508		3056	1	11	12	36
450	HCNAT74	203917 04/08/99	Lambda ZAP II	460	1003	1	1003	168	3057	1	16	17	61
451	HCNCT01	203917 04/08/99	Lambda ZAP II	461	678	1	678	241	3058	1			7
452	HCNDR39	203979 04/29/99	Lambda ZAP II	462	3281	2461	2841	2671	3059	1			11

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
453	HCNSD91	203917 04/08/99	pBluescript	463	870	1	870	309	309	3060	1	16
454	HCNSF01	PTA-1838 05/09/00	pBluescript	464	1735	771	1725	1011	1011	3061	1	47
455	HCNSG06	203917 04/08/99	pBluescript	465	509	1	509	23	23	3062	1	31
456	HCNSG32	203917 04/08/99	pBluescript	466	917	1	917		568	3063	1	8
457	HCPAE41	203917 04/08/99	Uni-ZAP XR	467	676	1	676	46	46	3064	1	42
458	HCOAK36	203917 04/08/99	Lambda ZAP II	468	1232	100	1192	385	385	3065	1	19
459	HCOAQ47	203917 04/08/99	Lambda ZAP II	469	862	1	862	113	113	3066	1	39
460	HCOAS72	203917 04/08/99	Lambda ZAP II	470	1388	620	1388	140	140	3067	1	305
461	HCOBM95	203917 04/08/99	Lambda ZAP II	471	692	1	692	253	253	3068	1	4
462	HCOQM95	203917 04/08/99	Lambda ZAP II	472	2629	1	1909	395	395	3069	1	21

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
463	HCQCM95	203917 04/08/99	Lambda ZAP II	473	2017	183	1996	481	481	3070	1		21
464	HCQCV23	203979 04/29/99	Lambda ZAP II	474	1414	396	1414	516	516	3071	1		25
465	HCQCV23	203979 04/29/99	Lambda ZAP II	475	1412	396	1412	516	516	3072	1		25
466	HCQDD32	203917 04/08/99	Lambda ZAP II	476	884	1	884	72	72	3073	1	20	39
467	HCQDD61	203959 04/26/99	Lambda ZAP II	477	875	1	875	292	292	3074	1		9
468	HCQDT67	203917 04/08/99	Lambda ZAP II	478	753	1	753	142	142	3075	1	21	44
469	HCRA129	203918 04/08/99	Uni-ZAP XR	479	690	1	690	175	175	3076	1	38	39
470	HCRA179	203917 04/08/99	Uni-ZAP XR	480	1512	104	1512	199	199	3077	1	20	46
471	HCRA120	203979 04/29/99	Uni-ZAP XR	481	2120	318	2100	394	394	3078	1	33	95
472	HCRA120	203917 04/08/99	Uni-ZAP XR	482	846	45	846	87	87	3079	1	32	194
472	HCRA120	203917 04/08/99	Uni-ZAP XR	2601	1122	1	1122	41	41	5198	1		32

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
473	HCRMA24	PTA-794 09/27/99	pSport1	483	652	1	652	86	3080	1	18	19	22
474	HCRM35	PTA-181 06/07/99	pSport1	484	2909	1842	2577	2164	3081	1	28	29	58
475	HCRM35	PTA-181 06/07/99	pSport1	485	2918	1842	2577	2164	3082	1	28	29	58
476	HCRM35	PTA-181 06/07/99	pSport1	486	2918	1842	2577	2164	3083	1	28	29	58
477	HCR0C18	PTA-792 06/07/99	pSport1	487	1891	1	1891	367	3084	1	18	19	443
478	HCUAE33	203917 04/08/99	ZAP Express	488	1487	1	1487	309	3085	1	14	15	31
479	HCUAO46	203917 04/08/99	ZAP Express	489	262	1	262	169	3086	1	24	25	31
480	HCUAT74	203917 04/08/99	ZAP Express	490	773	1	767		3087	1	15	16	32
481	HCUBA28	203918 04/08/99	ZAP Express	491	218	1	218	65	3088	1	26	27	51

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
482	HCUBC45	203917 04/08/99	ZAP Express	492	488	1	488	98	3089	1	28	29	37
483	HCUBM41	203917 04/08/99	ZAP Express	493	1269	1	1269	27	3090	1	21	22	59
484	HCUBN69	203917 04/08/99	ZAP Express	494	858	1	858		3091	1	22	23	39
485	HCUBY47	203918 04/08/99	ZAP Express	495	1107	1	1107		3092	1	18	19	120
486	HCUCV66	203917 04/08/99	ZAP Express	496	1114	547	1114	744	3093	1	20	21	45
487	HCUDJ41	203917 04/08/99	ZAP Express	497	371	1	371	229	3094	1	19	20	20
488	HCUEC55	203917 04/08/99	ZAP Express	498	360	1	360	227	3095	1	26	27	44
489	HCUEG85	203917 04/08/99	ZAP Express	499	505	1	505	200	3096	1	31	32	35
490	HCUES35	203917 04/08/99	ZAP Express	500	499	1	499		3097	1	23	24	33
491	HCUEFC77	203917 04/08/99	ZAP Express	501	1545	1	1545	65	3098	1	27	28	39
492	HCUFED17	203979 04/29/99	ZAP Express	502	552	1	552	230	3099	1	17	18	29

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
493	HCUF46	203917 04/08/99	ZAP Express	503	600	88	354	101	3100	1	21	22	33
494	HCUF33	203917 04/08/99	ZAP Express	504	522	1	522	90	3101	1	14	15	48
495	HCUF09	203917 04/08/99	ZAP Express	505	573	226	573	352	3102	1	24	25	49
496	HCUFQ58	203917 04/08/99	ZAP Express	506	597	250	597	295	3103	1	23	24	34
497	HCUFQ58	203917 04/08/99	ZAP Express	507	594	248	594	293	3104	1	23	24	34
498	HCUFX08	203917 04/08/99	ZAP Express	508	1333	1	1333	280	3105	1	9	10	21
499	HCUGB76	203917 04/08/99	ZAP Express	509	391	1	391	263	3106	1	35	36	36
500	HCUGK79	203917 04/08/99	ZAP Express	510	182	1	182	80	3107	1			4
501	HCUGQ19	203917 04/08/99	ZAP Express	511	587	1	587	359	3108	1	5	6	29
502	HCUGR26	203917 04/08/99	ZAP Express	512	1630	1	1630	27	3109	1	19	20	49
503	HCUGR86	203917 04/08/99	ZAP Express	513	2139	1	2139	831	3110	1	13	14	36

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
504	HCUHE27	203917 04/08/99	ZAP Express	514	819	1	819	213	213	3111	1			10
505	HCUHL82	203917 04/08/99	ZAP Express	515	174	1	174	50	50	3112	1	22	23	31
506	HCUHM71	203917 04/08/99	ZAP Express	516	622	1	622	80	80	3113	1	21	22	84
507	HCWAK88	203917 04/08/99	ZAP Express	517	1993	40	1993	115	115	3114	1	39	40	46
508	HCWAL10	203917 04/08/99	ZAP Express	518	1094	7	1094		362	3115	1			10
509	HCWAT71	203917 04/08/99	ZAP Express	519	2439	1	2439	142	142	3116	1	22	23	35
510	HCWBQ52	203917 04/08/99	ZAP Express	520	859	1	859	284	284	3117	1			28
511	HCWCH16	203917 04/29/99	ZAP Express	521	2295	1	2295	166	166	3118	1			7
512	HCWDM69	203917 04/08/99	ZAP Express	522	1055	150	1055		328	3119	1			4
513	HCWEB38	PTA-1838 05/09/00	ZAP Express	523	1179	8	1179	223	223	3120	1	24	25	60

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
514	HCWEB72	203917 04/08/99	ZAP Express	524	883	1	883	86	86	3121	1	23	24	27
515	HCWEF04	PTA- 1838 05/09/00	ZAP Express	525	383	1	356	25	25	3122	1	24	25	119
516	HCWEI82	203917 04/08/99	ZAP Express	526	657	1	657	135	135	3123	1			6
517	HCWEM96	203917 04/08/99	ZAP Express	527	1901	1	1901		1156	3124	1	7	8	36
518	HCWEF16	203917 04/08/99	ZAP Express	528	375	12	358	227	227	3125	1	18	19	49
519	HCWEF16	203917 04/08/99	ZAP Express	529	375	12	358	227	227	3126	1	18	19	49
520	HCWFK03	203917 04/08/99	ZAP Express	530	303	1	303	149	149	3127	1	27	28	43
521	HCWHD30	203917 04/08/99	ZAP Express	531	810	1	810	262	262	3128	1			12
522	HCWHT34	203917 04/08/99	ZAP Express	532	1256	1	1256	190	190	3129	1	22	23	32
523	HCWHT52	203917 04/08/99	ZAP Express	533	657	1	657	527	527	3130	1	18	19	43

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
524	HCWKO32	203917 04/08/99	ZAP Express	534	626	1	626	146	146	3131	1	23	24	41
525	HCWLE50	203917 04/08/99	ZAP Express	535	342	1	342	244	244	3132	1	18	19	33
526	HCWUF93	203917 04/08/99	ZAP Express	536	808	366	792	609	609	3133	1	45	46	66
527	HCWUW24	203917 04/08/99	ZAP Express	537	1300	1	1144	27	27	3134	1	24	25	39
528	HCYBA32	203979 04/29/99	pBluescript SK-	538	2092	1	2092	173	173	3135	1	18	19	30
529	HDAAV67	203917 04/08/99	pSport1	539	643	1	643	54	54	3136	1	29	30	38
530	HDABR74	PTA-181 06/07/99	pSport1	540	1896	1	1896		419	3137	1	14	15	243
531	HDABW45	203917 04/08/99	pSport1	541	3362	1	3362	95	95	3138	1	20	21	33
532	HDACJ52	203917 04/08/99	pSport1	542	842	1	842		178	3139	1	17	18	44
533	HDCBM09	PTA-794 09/27/99	pSport1	543	419	1	419	69	69	3140	1	17	18	117

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of Start Codon	5' NT First AA of Signal	NT AA NO: Y	First AA of Sig Pep	Last of AA of Secreted Portion	Last of AA of ORF
534	HDFAB86	203917 04/08/99	pCMVSPORT 2.0	544	1262	1	1262	155	155	3141	1	17	39
535	HDFIB37	203917 04/08/99	pCMVSPORT 2.0	545	1624	1	1624	357	357	3142	1	20	32
536	HDFMB91	203917 04/08/99	pCMVSPORT 2.0	546	224	1	224	53	53	3143	1	20	31
537	HDHAA55	203917 04/08/99	pCMVSPORT 2.0	547	1567	1	1567	93	93	3144	1	31	50
538	HDHEA33	203979 04/29/99	pCMVSPORT 2.0	548	1681	1	1681	414	414	3145	1	18	85
539	HDHEB12	203917 04/08/99	pCMVSPORT 2.0	549	697	1	697	294	294	3146	1	21	67
540	HDHEB80	203917 04/08/99	pCMVSPORT 2.0	550	733	1	733	302	302	3147	1	20	28
541	HDHIA16	203917 04/08/99	pCMVSPORT 2.0	551	680	1	680	249	249	3148	1	15	39
542	HDHIA26	203917 04/08/99	pCMVSPORT 2.0	552	1661	1	1661	146	146	3149	1	34	54
543	HDHMA71	203917 04/08/99	pCMVSPORT 2.0	553	1336	71	1336	210	210	3150	1	20	38
544	HDLAL94	203979 04/29/99	pCMVSPORT 2.0	554	3569	548	3569	192	192	3151	1	15	179

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	NT Total Seq.	5' NT3' of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
545	HDPAB86	PTA-1838 05/09/00	pCMVSPORT 3.0	555	2074	1	2074	389	3152	1	22	23	81
546	HDPAB80	203917 04/08/99	pCMVSPORT 3.0	556	2010	1	2010	181	3153	1	24	25	55
547	HDPAB86	203917 04/08/99	pCMVSPORT 3.0	557	1426	1	1426	90	3154	1			29
548	HDPBD56	203917 04/08/99	pCMVSPORT 3.0	558	2382	247	2379	371	3155	1	20	21	31
549	HDPBN48	203960 04/26/99	pCMVSPORT 3.0	559	1735	1	1735	126	3156	1	19	20	33
550	HDPBG79	203960 04/26/99	pCMVSPORT 3.0	560	1581	1	1581	240	3157	1	22	23	24
551	HDPBV29	203960 04/26/99	pCMVSPORT 3.0	561	1226	1	1226	95	3158	1			43
552	HDPDA36	203960 04/26/99	pCMVSPORT 3.0	562	3840	1	3840	305	3159	1	31	32	32
553	HDPDC59	PTA-791 09/27/99	pCMVSPORT 3.0	563	2243	1	2243	320	3160	1	21	22	56
554	HDPFG13	203960 04/26/99	pCMVSPORT 3.0	564	1635	11	1635	170	3161	1	43	44	63

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Peptide	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
555	HDPFK27	203960 04/26/99	pCMVSPORT 3.0	565	1533	1	1533	283	3162	1	14	34
556	HDPFZ05	203960 04/26/99	pCMVSPORT 3.0	566	2185	1	2185	172	3163	1	15	42
557	HDPGA84	203960 04/26/99	pCMVSPORT 3.0	567	1119	1	1119	17	3164	1	19	100
558	HDPGR80	203979 04/29/99	pCMVSPORT 3.0	568	2608	67	1756	1690	3165	1	6	41
559	HDPGU14	203918 04/08/99	pCMVSPORT 3.0	569	2322	898	2321	1202	3166	1		3
560	HDPGX09	203960 04/26/99	pCMVSPORT 3.0	570	1371	1	1371	90	3167	1	19	30
561	HDPTE44	PTA-794 09/27/99	pCMVSPORT 3.0	571	4115	1	4115	169	3168	1	35	60
562	HDPTE73	PTA-793 09/27/99	pCMVSPORT 3.0	572	2251	1	2251	212	3169	1	19	38
563	HDPFE35	203959 04/26/99	pCMVSPORT 3.0	573	1011	1	826	102	3170	1	7	21
564	HDPFE65	203979 04/29/99	pCMVSPORT 3.0	574	1646	1	1646	38	3171	1	36	57

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
565	HDPH25	203960 04/26/99	pCMVSPORT 3.0	575	2729	1	2729	181	3172	1	48	49	51
566	HDPY31	PTA-793 09/27/99	pCMVSPORT 3.0	576	1978	1	1978	268	3173	1	16	17	35
567	HDPJH72	203979 04/29/99	pCMVSPORT 3.0	577	1990	12	1348		3174	1	13	14	186
568	HDPJV53	203960 04/26/99	pCMVSPORT 3.0	578	2816	1	2816	145	3175	1	16	17	57
569	HDPJV75	203960 04/26/99	pCMVSPORT 3.0	579	1250	1	1250		3176	1			23
570	HDPKC55	203960 04/26/99	pCMVSPORT 3.0	580	1795	1	1795	102	3177	1	28	29	453
571	HDPKD16	PTA-794 09/27/99	pCMVSPORT 3.0	581	2486	1	2486	274	3178	1			21
572	HDPMC52	203979 04/29/99	pCMVSPORT 3.0	582	554	1	554	214	3179	1	50	51	78
573	HDPML04	203960 04/26/99	pCMVSPORT 3.0	583	1422	1	1422	98	3180	1	24	25	32
574	HDPMM22	203960 04/26/99	pCMVSPORT 3.0	584	1181	1	1181	332	3181	1	15	16	35

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
575	HDPNC21	203960 04/26/99	pCMVSPORT 3.0	585	1430	1	1430	40	3182	1	9	10	68
576	HDPNJ26	PTA-181 06/07/99	pCMVSPORT 3.0	586	1719	394	1719	422	3183	1	20	21	50
577	HDPD73	PTA-794 09/27/99	pCMVSPORT 3.0	587	797	1	797	446	3184	1			8
578	HDPOT33	PTA-1838 05/09/00	pCMVSPORT 3.0	588	1868	551	1868	691	3185	1	17	18	97
579	HDPBP70	PTA-791 09/27/99	pCMVSPORT 3.0	589	2444	82	2414	257	3186	1	20	21	310
580	HDPPEC19	203960 04/26/99	pCMVSPORT 3.0	590	686	1	686	271	3187	1	19	20	64
581	HDPPE05	203960 04/26/99	pCMVSPORT 3.0	591	1112	1	1112	303	3188	1			16
582	HDPFA70	203960 04/26/99	pCMVSPORT 3.0	592	1254	1	1254	252	3189	1	13	14	16
583	HDPSS56	203979 04/29/99	pCMVSPORT 3.0	593	1240	1	1240	186	3190	1	24	25	31

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First Secreted Portion	Last of ORF
584	HDPSZ07	203960 04/26/99	pCMVSPORT 3.0	594	1337	1	1009	244	244	3191	1	27	28	39
585	HDPSZ07	203960 04/26/99	pCMVSPORT 3.0	595	1337	1	1009	244	244	3192	1	27	28	39
586	HDPSZ07	203960 04/26/99	pCMVSPORT 3.0	596	1337	1	1009	244	244	3193	1	27	28	39
587	HDPTI49	203979 04/29/99	pCMVSPORT 3.0	597	1724	1	1724	182	182	3194	1	17	18	35
588	HDPTP22	203960 04/26/99	pCMVSPORT 3.0	598	1519	1	1519	236	236	3195	1	26	27	37
589	HDPE25	203960 04/26/99	pCMVSPORT 3.0	599	1108	33	1108	301	301	3196	1	22	23	23
590	HDQGD06	203960 04/26/99	pCMVSPORT 3.0	600	1579	53	1437	469	469	3197	1	19	20	310
591	HDQGD06	203960 04/26/99	pCMVSPORT 3.0	601	1561	53	1437	469	469	3198	1	19	20	310
592	HDQGD06	203960 04/26/99	pCMVSPORT 3.0	602	1581	53	1439	470	470	3199	1	19	20	370
593	HDQGN08	203960 04/26/99	pCMVSPORT 3.0	603	1960	1	1960	96	96	3200	1	31	32	137
594	HDQGO62	203960 04/26/99	pCMVSPORT 3.0	604	1077	482	1077	728	728	3201	1			10

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
595	HDQPM16	PTA-793 09/27/99	pCMVSPORT 3.0	605	2054	1	2054	473	3202	1	26	27	39
596	HDRAA17	203960 04/26/99	pCMVSPORT 2.0	606	788	1	788	77	3203	1	27	28	50
597	HDRAC68	203960 04/26/99	pCMVSPORT 2.0	607	782	1	782	65	3204	1	22	23	50
598	HDSAC78	203960 04/26/99	Uni-ZAP XR	608	1387	1	1387	11	3205	1	24	25	32
599	HDSAHS7	203960 04/26/99	Uni-ZAP XR	609	545	1	545	239	3206	1	17	18	55
600	HDSAM57	203960 04/26/99	Uni-ZAP XR	610	924	1	924	226	3207	1	20	21	23
601	HDSAO14	203979 04/29/99	Uni-ZAP XR	611	1433	1	1433	208	3208	1	21	22	49
602	HDSAO64	203960 04/26/99	Uni-ZAP XR	612	477	1	477	351	3209	1	11	12	29
603	HDSAP15	203960 04/26/99	Uni-ZAP XR	613	1857	851	1417	976	3210	1	28	29	126
604	HDTAR39	203979 04/29/99	pCMVSPORT 2.0	614	1267	1	1267	199	3211	1	21	22	52

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
605	HDTAS57	203960 04/26/99	pCMVSPORT 2.0	615	915	1	915	62	3212	1	46	50
606	HDTBP62	203960 04/26/99	pCMVSPORT 2.0	616	1358	1	1358	203	3213	1	30	37
607	HDTBQ77	203960 04/26/99	pCMVSPORT 2.0	617	1335	1	1335	348	3214	1	30	34
608	HDTDA48	203960 04/26/99	pCMVSPORT 2.0	618	932	1	932	105	3215	1	20	37
609	HDTDE66	203960 04/26/99	pCMVSPORT 2.0	619	697	1	697	223	3216	1	33	75
610	HDTDG75	203960 04/26/99	pCMVSPORT 2.0	620	611	1	611	410	3217	1	13	35
611	HDTDS09	203960 04/26/99	pCMVSPORT 2.0	621	676	1	676	443	3218	1		25
612	HDTDF53	203960 04/26/99	pCMVSPORT 2.0	622	572	1	572	19	3219	1		9
613	HDTGW76	PTA-181 06/07/99	pCMVSPORT 2.0	623	2235	1	2235	156	3220	1	33	37
614	HDTGZ56	203960 04/26/99	pCMVSPORT 2.0	624	1476	1	1476	250	3221	1	15	36

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
615	HDTHZ85	PTA-793 09/27/99	pCMVSPORT 2.0	625	596	1	596	114	114	3222	1			31
616	HDTIM39	PTA-793 09/27/99	pCMVSPORT 2.0	626	1735	1	1735	401	401	3223	1	29	30	85
617	HDTKJ29	203960 04/26/99	pCMVSPORT 2.0	627	1388	1	1388	112	112	3224	1	22	23	207
618	HDUAB12	203960 04/26/99	pSport1	628	887	1	887	294	294	3225	1	12	13	33
619	HDUAD68	203960 04/26/99	pSport1	629	804	1	804	35	35	3226	1	31	32	34
620	HE2AC74	PTA-181 06/07/99	Uni-ZAP XR	630	3264	1713	3206	1869	1869	3227	1	26	27	31
621	HE2AC74	PTA-181 06/07/99	Uni-ZAP XR	631	4417	2866	4359	3022	3022	3228	1	26	27	31
622	HE2AC75	203960 04/26/99	Uni-ZAP XR	632	324	1	324	14	14	3229	1	15	16	33
623	HE2AI94	203960 04/26/99	Uni-ZAP XR	633	765	1	765		144	3230	1	25	26	55

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	5' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
624	HE2AT61	203960 04/26/99	Uni-ZAP XR	634	853	1	853	487	3231	1	21	22	75
625	HE2AX36	203960 04/26/99	Uni-ZAP XR	635	1293	5	1293		34	3232	1		6
626	HE2AY96	203960 04/26/99	Uni-ZAP XR	636	1771	579	1261		1394	3233	1	7	12
627	HE2BD72	203960 04/26/99	Uni-ZAP XR	637	699	1	699	217	217	3234	1	15	59
628	HE2BH50	203979 04/29/99	Uni-ZAP XR	638	1453	1	1453	129	129	3235	1	18	24
629	HE2CB53	203960 04/26/99	Uni-ZAP XR	639	1140	1	1140	121	121	3236	1	20	38
630	HE2CC17	203960 04/26/99	Uni-ZAP XR	640	1397	1	1397	70	70	3237	1	20	32
631	HE2CJ53	203960 04/26/99	Uni-ZAP XR	641	1883	1	1883	123	123	3238	1	21	79
632	HE2CK47	203960 04/26/99	Uni-ZAP XR	642	2220	915	1746	960	960	3239	1	17	55
633	HE2CM34	203960 04/26/99	Uni-ZAP XR	643	432	1	432	175	175	3240	1		4
634	HE2DG46	203960 04/26/99	Uni-ZAP XR	644	1799	1	1799	132	132	3241	1	16	30

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Codon	5' NT of First AA of Signal	AA SEQ ID NO:	First of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
635	HE2DI16	203960 04/26/99	Uni-ZAP XR	645	1521	1	1521	95	95	3242	1	16	17
636	HE2DJ84	203960 04/26/99	Uni-ZAP XR	646	1185	563	1185		842	3243	1	13	14
637	HE2DY23	PTA-791 09/27/99	Uni-ZAP XR	647	1649	1	1649	175	175	3244	1	14	15
638	HE2DY25	203918 04/08/99	Uni-ZAP XR	648	3484	279	2191	493	493	3245	1	28	29
639	HE2EE80	203979 04/29/99	Uni-ZAP XR	649	1593	1	1593	181	181	3246	1	20	21
640	HE2EH45	203960 04/26/99	Uni-ZAP XR	650	933	1	914	213	213	3247	1	14	15
641	HE2FE89	203918 04/08/99	Uni-ZAP XR	651	1685	1	1609	117	117	3248	1	28	29
642	HE2FR49	203960 04/26/99	Uni-ZAP XR	652	526	77	526	96	96	3249	1	27	28
643	HE2GB19	203960 04/26/99	Uni-ZAP XR	653	1582	1	1582	374	374	3250	1		
644	HE2GO81	203960 04/26/99	Uni-ZAP XR	654	268	1	268	79	79	3251	1		

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	5' NT of Clone Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	5' NT of First ID of AA of NO: Y	First AA of Sig Pep	Last AA of Sig Portion	Last AA of ORF
645	HE2HB61	203960 04/26/99	Uni-ZAP XR	655 755	1	755	154	154	3252	1	28	31
646	HE2HB64	203960 04/26/99	Uni-ZAP XR	656 1875	1	1875	225	225	3253	1		36
647	HE2HF76	203960 04/26/99	Uni-ZAP XR	657 1222	1	1222	111	111	3254	1	18	42
648	HE2ID09	203960 04/26/99	Uni-ZAP XR	658 2048	1	2048		1331	3255	1	13	23
649	HE2IE66	203918 04/08/99	Uni-ZAP XR	659 1746	601	1746	861	861	3256	1		14
650	HE2NW57	203960 04/26/99	Uni-ZAP XR	660 516	1	516	101	101	3257	1	29	30
651	HE2OA95	203960 04/26/99	Uni-ZAP XR	661 1671	1	1671		1224	3258	1	9	10
652	HE2OC39	203960 04/26/99	Uni-ZAP XR	662 1356	1	1356	79	79	3259	1		1
653	HE2PB61	203979 04/29/99	Uni-ZAP XR	663 880	1	880	19	19	3260	1	17	23
654	HE2P43	203979 04/29/99	Uni-ZAP XR	664 1003	1	1003	69	69	3261	1	14	15
655	HE2PJ56	203960 04/26/99	Uni-ZAP XR	665 1061	135	1061	142	142	3262	1	25	26

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
656	HE6C141	203960 04/26/99	Uni-ZAP XR	666	1080	1	1080	231	3263	1			10
657	HE6DC37	203960 04/26/99	Uni-ZAP XR	667	464	1	464	107	3264	1	15	16	23
658	HE6DN83	203960 04/26/99	Uni-ZAP XR	668	1708	1	1708	257	3265	1			13
659	HE6EI30	203979 04/29/99	Uni-ZAP XR	669	603	1	603	48	3266	1	20	21	86
660	HE6ET70	203960 04/26/99	Uni-ZAP XR	670	1415	1	1415	176	3267	1	25	26	35
661	HE6GO65	203960 04/26/99	Uni-ZAP XR	671	780	8	774	364	3268	1	14	15	17
662	HE6AN83	203918 04/08/99	Uni-ZAP XR	672	3334	1	3334	285	3269	1	15	16	25
663	HE6AU68	203960 04/26/99	Uni-ZAP XR	673	918	1	918	68	3270	1			18
664	HE6BE20	203960 04/26/99	Uni-ZAP XR	674	3193	1	2270	289	3271	1	16	17	118
665	HE6BP05	203918 04/08/99	Uni-ZAP XR	675	1859	1	1859		3272	1	10	11	14
666	HE6BP64	203979 04/29/99	Uni-ZAP XR	676	2867	1	2867	208	3273	1	20	21	380

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Pep	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
667	HE8BQ49	203960 04/26/99	Uni-ZAP XR	677	1875	12	1875	133	133	3274	1	11
668	HE8BR18	203960 04/26/99	Uni-ZAP XR	678	1651	1	1651	207	207	3275	1	31
669	HE8BR30	203960 04/26/99	Uni-ZAP XR	679	2292	1	2292	168	168	3276	1	28
670	HE8BT58	203960 04/26/99	Uni-ZAP XR	680	3560	2277	3533	2371	2371	3277	1	105
671	HE8BU60	203960 04/26/99	Uni-ZAP XR	681	1902	1	1902	244	244	3278	1	22
672	HE8CA13	203960 04/26/99	Uni-ZAP XR	682	1538	1	1322	111	111	3279	1	39
673	HE8CC34	203960 04/26/99	Uni-ZAP XR	683	2148	1	2148	163	163	3280	1	28
674	HE8CH08	203960 04/26/99	Uni-ZAP XR	684	2608	1	2556	347	347	3281	1	36
675	HE8DG02	203960 04/26/99	Uni-ZAP XR	685	1642	1	1642	235	235	3282	1	22
676	HE8DK52	203960 04/26/99	Uni-ZAP XR	686	1783	1	1783	137	137	3283	1	32

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Secreted Portion	Last AA of ORF
677	HE8DZ94	PTA-791 09/27/99	Uni-ZAP XR	687	1799	1	1799	29	29	3284	1	27	38
678	HE8EN79	203960 04/26/99	Uni-ZAP XR	688	3198	1	3198	65	65	3285	1	14	21
679	HE8EX86	203960 04/26/99	Uni-ZAP XR	689	4185	39	2576	914	914	3286	1	16	71
680	HE8FC10	203960 04/26/99	Uni-ZAP XR	690	1054	1	1054		315	3287	1	26	145
681	HE8FG15	203960 04/26/99	Uni-ZAP XR	691	2472	2	2472	138	138	3288	1		32
682	HE8FG24	203960 04/26/99	Uni-ZAP XR	692	1606	83	1606	172	172	3289	1	23	117
683	HE8FK78	PTA-181 06/07/99	Uni-ZAP XR	693	2505	28	2505	187	187	3290	1	26	30
684	HE8FL24	203960 04/26/99	Uni-ZAP XR	694	1271	1	1271	251	251	3291	1	19	50
685	HE8FL68	203918 04/08/99	Uni-ZAP XR	695	1748	1	1748	223	223	3292	1		14
686	HE8FR53	203979 04/29/99	Uni-ZAP XR	696	3707	1171	3685	1206	1206	3293	1	22	37

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
687	HE8MA27	203960 04/26/99	Uni-ZAP XR	697	1307	1	1307	90	3294	1	44	45	56
688	HE8MG56	203960 04/26/99	Uni-ZAP XR	698	2304	12	2303	276	3295	1	22	23	90
689	HE8MQ01	PTA-793 09/27/99	Uni-ZAP XR	699	2719	1	2719	127	3296	1	25	26	37
690	HE8MS43	203960 04/26/99	Uni-ZAP XR	700	2600	1	2600	1387	3297	1			6
691	HE8MY77	203979 04/29/99	Uni-ZAP XR	701	2721	1	2721	61	3298	1	23	24	32
692	HE8NC81	PTA-181 06/07/99	Uni-ZAP XR	702	2626	1	2626	74	3299	1			13
692	HE8NC81	PTA-181 06/07/99	Uni-ZAP XR	2602	3357	1	3357	419	5199	1	24	25	282
693	HE8NO09	203960 04/26/99	Uni-ZAP XR	703	1034	574	997	837	3300	1			35
694	HE8QU21	203960 04/26/99	Uni-ZAP XR	704	1589	1	1589	4	3301	1	24	25	62
695	HE8SH74	203960 04/26/99	Uni-ZAP XR	705	3161	1	3161	47	3302	1	20	21	28

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Pep	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
696	HE8UX34	203960 04/26/99	Uni-ZAP XR	706	1409	8	1409	142	3303	1	22	23	74
697	HE9AE05	PTA-181 06/07/99	Uni-ZAP XR	707	1931	476	1931	654	3304	1	16	17	18
698	HE9BJ14	203960 04/26/99	Uni-ZAP XR	708	2128	1	1934	188	3305	1	17	18	30
699	HE9C181	203960 04/26/99	Uni-ZAP XR	709	2283	1696	2283		3306	1	18	19	26
700	HE9CJ38	203960 04/26/99	Uni-ZAP XR	710	2742	1	2742	85	3307	1			20
701	HE9CM11	203960 04/26/99	Uni-ZAP XR	711	1294	1	1294	6	3308	1	22	23	34
702	HE9CN58	203960 04/26/99	Uni-ZAP XR	712	930	1	930	139	3309	1	14	15	16
703	HE9CV59	203979 04/29/99	Uni-ZAP XR	713	1393	1	1393	152	3310	1			27
704	HE9DG54	203960 04/26/99	Uni-ZAP XR	714	1913	1	1913	295	3311	1	16	17	68
705	HE9DH59	PTA-793 09/27/99	Uni-ZAP XR	715	2502	400	2443	701	3312	1			12

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First AA of Secreted Portion	Last of AA of ORF
706	HE9DZ47	203960 04/26/99	Uni-ZAP XR	716	1276	1	1219	239	239	3313	1	35	36	44
707	HE9EC36	203960 04/26/99	Uni-ZAP XR	717	1279	318	1279		541	3314	1			6
708	HE9EM54	203960 04/26/99	Uni-ZAP XR	718	1086	1	1086	125	125	3315	1	24	25	26
709	HE9FH28	203960 04/26/99	Uni-ZAP XR	719	1276	1	1276	159	159	3316	1	20	21	30
710	HE9HE13	203960 04/26/99	Uni-ZAP XR	720	2757	1804	2735	1949	1949	3317	1			5
711	HE9HE13	203960 04/26/99	Uni-ZAP XR	721	1547	594	1525	739	739	3318	1			5
712	HE9HF59	203960 04/26/99	Uni-ZAP XR	722	1614	1	1614	412	412	3319	1			6
713	HE9HV71	203960 04/26/99	Uni-ZAP XR	723	937	1	937	200	200	3320	1	20	21	31
714	HE9NB82	203960 04/26/99	Uni-ZAP XR	724	1329	10	1329	60	60	3321	1	26	27	109
715	HE9NE43	PTA-181 06/07/99	Uni-ZAP XR	725	2455	1	2455	276	276	3322	1			19

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
716	HE9RN58	203960 04/26/99	Uni-ZAP XR	726	834	1	834	515	3323	1	22	23	26
717	HE9TA42	203960 04/26/99	Uni-ZAP XR	727	3371	2187	3359	2540	3324	1	28	29	36
718	HEAAC21	203960 04/26/99	Uni-ZAP XR	728	1094	1	1094	68	3325	1	15	16	63
719	HEAAC39	203960 04/26/99	Uni-ZAP XR	729	1243	1	1243	299	3326	1			5
720	HEAAC48	203960 04/26/99	Uni-ZAP XR	730	818	1	818	178	3327	1			30
721	HEAAD63	203960 04/26/99	Uni-ZAP XR	731	847	1	847	107	3328	1			10
722	HEAAE19	203960 04/26/99	Uni-ZAP XR	732	662	1	662	296	3329	1			14
723	HEAAM54	203960 04/26/99	Uni-ZAP XR	733	2254	1	2254	219	3330	1	18	19	41
724	HEAAM96	203960 04/26/99	Uni-ZAP XR	734	1079	1	1079	217	3331	1			15
725	HEAAN52	PTA-181 06/07/99	Uni-ZAP XR	735	2166	1	2166	377	3332	1	12	13	15

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
726	HEAAU28	203960 04/26/99	Uni-ZAP XR	736	632	1	632	73	73	3333	1	35	36	40
727	HEAAW54	203918 04/08/99	Uni-ZAP XR	737	1104	1	1104	196	196	3334	1	23	24	53
728	HEAAW94	203979 04/29/99	Uni-ZAP XR	738	924	1	924	189	189	3335	1			11
729	HEBAP51	203960 04/26/99	Uni-ZAP XR	739	1492	868	1492		1060	3336	1	34	35	37
730	HEBAT05	203960 04/26/99	Uni-ZAP XR	740	638	1	638	216	216	3337	1	24	25	55
731	HEBBF78	203960 04/26/99	Uni-ZAP XR	741	944	298	933		590	3338	1			19
732	HEBBK04	203960 04/26/99	Uni-ZAP XR	742	408	1	408		280	3339	1	10	11	29
733	HEBCN80	203960 04/26/99	Uni-ZAP XR	743	1687	1	1687		322	3340	1	14	15	50
734	HEBCW57	PTA-181 06/07/99	Uni-ZAP XR	744	1266	30	1266	1080	1080	3341	1	27	28	62
735	HEBDF90	203960 04/26/99	Uni-ZAP XR	745	2902	1273	2710	1461	1461	3342	1	19	20	40

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
736	HEBDW31	203960 04/26/99	Uni-ZAP XR	746	1328	486	1305	734	734	3343	1	21	22	142
737	HEBFL36	203960 04/26/99	Uni-ZAP XR	747	590	1	590	381	381	3344	1	25	26	43
738	HEBGC01	203960 04/26/99	Uni-ZAP XR	748	752	1	752	201	201	3345	1	21	22	36
739	HEBGE23	203960 04/26/99	Uni-ZAP XR	749	419	1	419	153	153	3346	1	31	32	81
740	HEBGE85	203960 04/26/99	Uni-ZAP XR	750	949	380	949	615	615	3347	1			7
741	HEBGJ94	203979 04/29/99	Uni-ZAP XR	751	440	1	440	158	158	3348	1	19	20	51
742	HEBGM06	203918 04/08/99	Uni-ZAP XR	752	1504	9	1504	26	26	3349	1	32	33	40
743	HEEAB58	203960 04/26/99	Uni-ZAP XR	753	1635	942	1607	1157	1157	3350	1			17
744	HEEAF49	PTA-792 09/27/99	Uni-ZAP XR	754	2141	1	2141	38	38	3351	1	16	17	41
745	HEEAJ46	203960 04/26/99	Uni-ZAP XR	755	2414	1	2414	291	291	3352	1			7

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
746	HEGAI20	203960 04/26/99	Uni-ZAP XR	756	929	1	929	111	111	3353	1	34	35	57
747	HEIAC52	203960 04/26/99	Uni-ZAP XR	757	3940	680	1336	760	760	3354	1	18	19	52
748	HELAC55	203960 04/26/99	Uni-ZAP XR	758	979	1	979	188	188	3355	1	35	36	38
749	HELAT58	203960 04/26/99	Uni-ZAP XR	759	2105	1	2105	215	215	3356	1	21	22	22
750	HELAW94	203960 04/26/99	Uni-ZAP XR	760	1491	1	1491		182	3357	1			15
751	HELD80	203960 04/26/99	Uni-ZAP XR	761	1460	1	1460	37	37	3358	1			10
752	HELDH39	203959 04/26/99	Uni-ZAP XR	762	2653	967	2448	1121	1121	3359	1	36	37	43
753	HELDK79	203960 04/26/99	Uni-ZAP XR	763	896	1	896		316	3360	1	15	16	68
754	HELDQ42	203960 04/26/99	Uni-ZAP XR	764	2070	49	2070	712	712	3361	1			26
755	HELEE85	203960 04/26/99	Uni-ZAP XR	765	569	1	569	75	75	3362	1			10
756	HELEL76	203960 04/26/99	Uni-ZAP XR	766	1123	119	1008	165	165	3363	1	20	21	218

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
757	HELEL76	203960 04/26/99	Uni-ZAP XR	767	1255	1	1255	42	3364	1	20	21	195
758	HELEO45	203979 04/29/99	Uni-ZAP XR	768	1965	1	1965	80	3365	1			21
759	HELFA57	203959 04/26/99	Uni-ZAP XR	769	1901	1	1901		3366	1	6	7	18
760	HELFO30	203960 04/26/99	Uni-ZAP XR	770	2354	565	2354	607	3367	1	16	17	41
761	HELGF28	203960 04/26/99	Uni-ZAP XR	771	2298	1	2298	255	3368	1	12	13	21
762	HELGP60	203960 04/26/99	Uni-ZAP XR	772	1296	1	1296	171	3369	1	20	21	29
763	HELHN47	PTA-793 09/27/99	Uni-ZAP XR	773	3147	842	3147	935	3370	1	36	37	45
764	HELHP11	203960 04/26/99	Uni-ZAP XR	774	1432	1	1302	293	3371	1	21	22	38
765	HELHP11	203960 04/26/99	Uni-ZAP XR	775	1483	1	1483	293	3372	1	21	22	38
766	HEMAE30	PTA-181 06/07/99	Uni-ZAP XR	776	1443	1	1443	169	3373	1	15	16	30

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
767	HEMBV40	203979 04/29/99	Uni-ZAP XR	777	1213	1	1213	276	276	3374	1	27	28	35
768	HEMCJ80	203960 04/26/99	Uni-ZAP XR	778	2667	195	2512	323	323	3375	1	24	25	78
769	HEMCL55	203960 04/26/99	Uni-ZAP XR	779	1356	1	1356	270	270	3376	1			8
770	HEMDB07	203960 04/26/99	Uni-ZAP XR	780	850	1	850	99	99	3377	1	25	26	34
771	HEMDR05	203960 04/26/99	Uni-ZAP XR	781	1018	1	1018	92	92	3378	1	20	21	76
772	HEMGK71	203979 04/29/99	Uni-ZAP XR	782	1693	1	1693	234	234	3379	1			12
773	HEOMF59	203960 04/26/99	pSport1	783	1136	1	1136	21	21	3380	1	31	32	49
774	HEOMJ73	203960 04/26/99	pSport1	784	2405	1	2405	148	148	3381	1			20
775	HEOMR67	203960 04/26/99	pSport1	785	2937	1	2937	216	216	3382	1	16	17	30
776	HEOMU25	203960 04/26/99	pSport1	786	1709	1	1709	84	84	3383	1	25	26	34
777	HEOMU44	203960 04/26/99	pSport1	787	1885	1	1885		167	3384	1	21	22	28

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
778	HEON185	203960 04/26/99	pSport1	788	1078	1	1078	136	136	3385	1	25	26	37
779	HEONK04	203960 04/26/99	pSport1	789	1553	1	1553	64	64	3386	1	19	20	31
780	HEONP08	203960 04/26/99	pSport1	790	1258	1	1258	38	38	3387	1	13	14	73
781	HEPAD15	203960 04/26/99	Uni-ZAP XR	791	346	1	346	223	223	3388	1	16	17	41
782	HEPBC23	203960 04/26/99	Uni-ZAP XR	792	541	220	269		123	3389	1	6	7	8
783	HEPBV09	203960 04/26/99	Uni-ZAP XR	793	464	1	464	294	294	3390	1	17	18	40
784	HEPCF35	203960 04/26/99	Uni-ZAP XR	794	453	1	453	259	259	3391	1	22	23	37
785	HEPCU48	203960 04/26/99	Uni-ZAP XR	795	2212	1185	2212	1218	1218	3392	1	25	26	91
786	HEQAH47	PTA-791 09/27/99	pCMVSPORT 3.0	796	1518	1	1518	22	22	3393	1	24	25	48
787	HEQAP92	203960 04/26/99	pCMVSPORT 3.0	797	1498	1	1498		843	3394	1	25	26	43

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Pep	NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
788	HEQAV53	203960 04/26/99	pCMV'Sport 3.0	798	1626	15	1016	130	3395	1	32	33	38
789	HEQB101	203960 04/26/99	pCMV'Sport 3.0	799	669	1	662	505	3396	1			19
790	HEQB101	203960 04/26/99	pCMV'Sport 3.0	800	2791	2346	2731	2603	3397	1			19
791	HEQB101	203960 04/26/99	pCMV'Sport 3.0	801	2791	2346	2731	2603	3398	1			19
792	HEQBM94	203960 04/26/99	pCMV'Sport 3.0	802	1025	1	1025	76	3399	1	50	51	134
793	HEQCB93	203960 04/26/99	pCMV'Sport 3.0	803	920	1	920	81	3400	1	22	23	35
794	HERA163	203960 04/26/99	Uni-ZAP XR	804	815	1	815	227	3401	1	17	18	24
795	HERAQ22	203960 04/26/99	Uni-ZAP XR	805	586	1	586	95	3402	1	18	19	39
796	HERAS61	203960 04/26/99	Uni-ZAP XR	806	246	1	246		3403	1			12
797	HESAG57	PTA-181 06/07/99	Uni-ZAP XR	807	1701	1	1701	453	3404	1			13

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
798	HETAA62	203960 04/26/99	Uni-ZAP XR	808	2593	1019	2458	1198	3405	1	25	26	43
799	HETBB70	203960 04/26/99	Uni-ZAP XR	809	728	14	728	263	3406	1			17
800	HETBJ88	PTA-181 06/07/99	Uni-ZAP XR	810	1697	1	1697	183	3407	1	41	42	74
801	HETCM67	PTA-181 06/07/99	Uni-ZAP XR	811	2047	1	2047	14	3408	1	21	22	435
802	HETDD61	203979 04/29/99	Uni-ZAP XR	812	1805	2	1805	148	3409	1	24	25	32
803	HETDD61	203979 04/29/99	Uni-ZAP XR	813	1804	2	1804	148	3410	1	24	25	32
804	HETDJ34	203960 04/26/99	Uni-ZAP XR	814	1238	1	1238	64	3411	1			27
805	HETDM73	203979 04/29/99	Uni-ZAP XR	815	2272	26	2272	177	3412	1			14
806	HETDP76	203960 04/26/99	Uni-ZAP XR	816	2811	1117	2810	1323	3413	1	15	16	105
807	HETFO57	203979 04/29/99	Uni-ZAP XR	817	1758	64	1755	195	3414	1	24	25	36

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
808	HETGZ31	203979 04/29/99	Uni-ZAP XR	818	1918	1	1918	127	3415	1			21
809	HETHD26	203960 04/26/99	Uni-ZAP XR	819	1817	172	1817	229	3416	1			29
810	HETHM27	203960 04/26/99	Uni-ZAP XR	820	960	1	960	121	3417	1	20	21	30
811	HETIN36	203960 04/26/99	Uni-ZAP XR	821	636	1	615	252	3418	1	16	17	51
812	HFAA117	203960 04/26/99	Uni-ZAP XR	822	1095	1	1095	16	3419	1	19	20	30
813	HFAAJ45	203960 04/26/99	Uni-ZAP XR	823	513	182	513	344	3420	1	18	19	30
814	HFADE41	203960 04/26/99	Uni-ZAP XR	824	796	1	796	233	3421	1			6
815	HFAADM09	PTA-1838 05/09/00	Uni-ZAP XR	825	2238	1	2238	236	3422	1	22	23	39
816	HFAUA23	203960 04/26/99	Uni-ZAP XR	826	499	1	499	52	3423	1	26	27	56
817	HFCAG75	203960 04/26/99	Uni-ZAP XR	827	788	1	788	153	3424	1	25	26	44

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
818	HFCAl40	PTA-181 06/07/99	Uni-ZAP XR	828	3011	1	3011	2	3425	1	2	756
819	HFCAQ17	203960 04/26/99	Uni-ZAP XR	829	1445	1	1445	20	3426	1	50	81
820	HFCBC16	203960 04/26/99	Uni-ZAP XR	830	1003	1	1003	141	3427	1		29
821	HFCBL53	203979 04/29/99	Uni-ZAP XR	831	1901	237	1838	307	3428	1	18	39
822	HFCBL53	203979 04/29/99	Uni-ZAP XR	832	1901	237	1838	307	3429	1	18	39
823	HFCBL53	203979 04/29/99	Uni-ZAP XR	833	1901	237	1838	307	3430	1	18	39
824	HFCBT29	203960 04/26/99	Uni-ZAP XR	834	1177	1	1177	230	3431	1	23	32
825	HFC CZ31	203960 04/26/99	Uni-ZAP XR	835	1731	1	1568	169	3432	1		10
826	HFC DN13	203960 04/26/99	Uni-ZAP XR	836	1098	1	1098	21	3433	1	19	92
827	HFC DT67	203960 04/26/99	Uni-ZAP XR	837	1122	1	1122	138	3434	1	21	103

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total of NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
828	HFCDY36	203960 04/26/99	Uni-ZAP XR	838	829	1	829	628	628	3435	1	15	16	30
829	HFCEC45	203979 04/29/99	Uni-ZAP XR	839	1227	1	1227	164	164	3436	1	15	16	93
830	HFCEY43	203960 04/26/99	Uni-ZAP XR	840	1513	1	1513	238	238	3437	1	18	19	46
831	HFEAG55	203960 04/26/99	Uni-ZAP XR	841	650	1	650	43	43	3438	1	21	22	161
832	HFEAU63	203960 04/26/99	Uni-ZAP XR	842	3652	1	3652	9	9	3439	1			11
833	HFEBA88	203957 04/26/99	Uni-ZAP XR	843	814	205	814	385	385	3440	1	29	30	57
834	HFEBK75	PTA-181 06/07/99	Uni-ZAP XR	844	1059	1	1059		228	3441	1	16	17	68
835	HFEBO15	203960 04/26/99	Uni-ZAP XR	845	968	359	934		542	3442	1			3
836	HFEBO17	PTA-181 06/07/99	Uni-ZAP XR	846	990	1	990	136	136	3443	1	17	18	27
837	HFEAE46	203960 04/26/99	Lambda ZAP II	847	968	1	968	93	93	3444	1	19	20	34

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
838	HFFAH01	203918 04/08/99	Lambda ZAP II	848	818	1	769	72	72	3445	1	18	19	50
839	HFFAL70	203960 04/26/99	Lambda ZAP II	849	1134	1	1134	178	178	3446	1	24	25	26
840	HFFAV61	203960 04/26/99	Lambda ZAP II	850	1643	1	1643	56	56	3447	1	29	30	50
841	HFGAB50	203960 04/26/99	Uni-ZAP XR	851	2298	1567	2298	1833	1833	3448	1	23	24	27
842	HFGAE28	203960 04/26/99	Uni-ZAP XR	852	1952	91	1952		347	3449	1			12
843	HFGAN63	203960 04/26/99	Uni-ZAP XR	853	1076	347	1076	507	507	3450	1	34	35	43
844	HFFDN80	PTA-1838 05/09/00	Other	854	561	1	561	259	259	3451	1	24	25	101
845	HFIAB78	203960 04/26/99	pSport1	855	1629	1	1629	183	183	3452	1	20	21	21
846	HFIAD23	203960 04/26/99	pSport1	856	1018	1	1018	30	30	3453	1	20	21	27
847	HFIK06	203960 04/26/99	pSport1	857	892	1	892	302	302	3454	1	22	23	37

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of Start Codon	5' NT First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
848	HFICH70	203960 04/26/99	pSport1	858	651	1	651	120	120	3455	1	25	26	47
849	HFHQ57	203960 04/26/99	pSport1	859	1270	1	1270	322	322	3456	1	19	20	47
850	HFHK29	203979 04/29/99	pSport1	860	3145	1366	3145	1611	1611	3457	1	18	19	26
851	HFHK29	203979 04/29/99	pSport1	861	3145	1366	3145	1611	1611	3458	1	18	19	26
852	HFHK29	203979 04/29/99	pSport1	862	3195	1366	3145	1611	1611	3459	1	18	19	26
853	HFHK29	203979 04/29/99	pSport1	863	3195	1366	3145	1611	1611	3460	1	18	19	26
854	HFHIQ27	203960 04/26/99	pSport1	864	1262	1	1262	280	280	3461	1	17	18	37
855	HFHIQ64	203960 04/26/99	pSport1	865	388	1	388	268	268	3462	1	18	19	19
856	HFHIZ61	PTA-181 06/07/99	pSport1	866	408	1	408		2	3463	1	17	18	90
857	HFHJD81	203960 04/26/99	pSport1	867	3014	1227	2967	1274	1274	3464	1	38	39	40

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
858	HFUF44	203918 04/08/99	pSport1	868	1572	9	1510	82	82	3465	1	21	22	35
859	HFITA02	203979 04/29/99	pSport1	869	1207	57	1207	306	306	3466	1	27	28	32
860	HFITF80	203960 04/26/99	pSport1	870	839	1	839	87	87	3467	1	27	28	34
861	HFIFUK66	203960 04/26/99	pSport1	871	1332	1	1332	51	51	3468	1	23	24	74
862	HFIFUT21	203960 04/26/99	pSport1	872	1978	171	1978		404	3469	1	11	12	24
863	HFIVB04	203979 04/29/99	pSport1	873	626	1	626	227	227	3470	1	27	28	38
864	HFIXC39	203960 04/26/99	pSport1	874	1882	531	1882	774	774	3471	1	32	33	59
865	HFIXC69	203960 04/26/99	pSport1	875	820	1	820	98	98	3472	1	28	29	65
866	HFIXE39	203918 04/08/99	pSport1	876	2485	1	2461	69	69	3473	1	18	19	31
867	HFYPI15	203960 04/26/99	pSport1	877	1793	1	1793	68	68	3474	1	18	19	35
868	HFIZE10	203960 04/26/99	pSport1	878	1005	203	1005	243	243	3475	1	22	23	36

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
869	HFIZF51	203960 04/26/99	pSport1	879	384	1	384	186	186	3476	1	25	26	66
870	HFIZK42	PTA-181 06/07/99	pSport1	880	548	128	548	435	435	3477	1	23	24	24
871	HFIZM89	203960 04/26/99	pSport1	881	499	1	499	143	143	3478	1	24	25	37
872	HFKBA62	203979 04/29/99	Uni-ZAP XR	882	1289	1	1289	120	120	3479	1	24	25	35
873	HFKBC47	203979 04/29/99	Uni-ZAP XR	883	1182	1	1182		6	3480	1	16	17	30
874	HFKDX33	203960 04/26/99	Uni-ZAP XR	884	1648	1	1648		964	3481	1	10	11	111
875	HFKEB14	203960 04/26/99	Uni-ZAP XR	885	1058	1	1058		218	3482	1	19	20	32
876	HFKEG63	203960 04/26/99	Uni-ZAP XR	886	1332	1	1332		211	3483	1	28	29	113
877	HFKES35	203957 04/26/99	Uni-ZAP XR	887	2010	1	2010		414	3484	1	9	10	172
878	HFKES35	203957 04/26/99	Uni-ZAP XR	888	2059	7	2023		414	3485	1	9	10	172

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ NO:	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of AA NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
879	HFKEU17	203960 04/26/99	Uni-ZAP XR	889	1284	1	1284	229	3486	1	20	34
880	HFKEV77	PTA-181 06/07/99	Uni-ZAP XR	890	1288	69	531	382	3487	1	23	68
881	HFKFI15	203960 04/26/99	Uni-ZAP XR	891	1980	687	1980	1033	3488	1	12	23
882	HFKFI35	203960 04/26/99	Uni-ZAP XR	892	2501	1	2501	211	3489	1	17	65
883	HFKFK49	203979 04/29/99	Uni-ZAP XR	893	672	1	672	181	3490	1		19
884	HFKFV88	203917 04/08/99	Uni-ZAP XR	894	1947	1	1942	335	3491	1	22	34
885	HFKFV88	203917 04/08/99	Uni-ZAP XR	895	2311	360	2306	695	3492	1	22	35
886	HFKFV88	203917 04/08/99	Uni-ZAP XR	896	2311	360	2306	695	3493	1	22	35
887	HFKFX64	203960 04/26/99	Uni-ZAP XR	897	779	1	779	127	3494	1		14
888	HFOXD49	203918 04/08/99	pSport1	898	715	1	715	56	3495	1	22	32

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	NT Total Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
889	HFOXEX8	203979 04/29/99	pSport1	899	2053	1	2053	331	3496	1	22	23	47
890	HFOYH74	203960 04/26/99	pSport1	900	396	1	396	278	3497	1			19
891	HFOYP02	203960 04/26/99	pSport1	901	916	1	916	13	3498	1	20	21	31
892	HFOYR24	PTA-181 06/07/99	pSport1	902	1860	1	1860	202	3499	1	18	19	31
893	HFOYR54	203960 04/26/99	pSport1	903	1490	2	1490	8	3500	1	23	24	39
894	HFOZB26	203960 04/26/99	pSport1	904	783	1	783	199	3501	1			10
895	HFPBF54	203960 04/26/99	Uni-ZAP XR	905	1900	1	1900	347	3502	1	13	14	17
896	HFPBF54	203960 04/26/99	Uni-ZAP XR	906	1900	1	1900	347	3503	1	13	14	17
897	HFPBI93	PTA-181 06/07/99	Uni-ZAP XR	907	732	1	732	205	3504	1			29
898	HFPBJ64	203960 04/26/99	Uni-ZAP XR	908	802	1	802	230	3505	1	19	20	41

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:	First AA of Sig Pep	Last AA of Secreted Portion	Last AA of ORF
899	HFPBQ35	203960 04/26/99	Uni-ZAP XR	909	846	1	846	317	317	3506	1		15
900	HFPCK22	203960 04/26/99	Uni-ZAP XR	910	1434	1	1434	56	56	3507	1	22	35
901	HFPCK32	203960 04/26/99	Uni-ZAP XR	911	761	1	761	194	194	3508	1	22	26
902	HFPCK36	203960 04/26/99	Uni-ZAP XR	912	441	1	441	57	57	3509	1	20	33
903	HFPCK84	203960 04/26/99	Uni-ZAP XR	913	452	1	452		101	3510	1		3
904	HFPCK47	203960 04/26/99	Uni-ZAP XR	914	1699	1	1699	12	12	3511	1	15	31
905	HFPCK66	203960 04/26/99	Uni-ZAP XR	915	1612	1	1612	292	292	3512	1	22	38
906	HFPCK65	203960 04/26/99	Uni-ZAP XR	916	963	1	963	277	277	3513	1	28	33
907	HFPCK42	203979 04/29/99	Uni-ZAP XR	917	2234	1	2210	88	88	3514	1	22	80
908	HFPCK88	203960 04/26/99	Uni-ZAP XR	918	1661	1	1661	238	238	3515	1	30	35
909	HFPCK025	203960 04/26/99	Uni-ZAP XR	919	533	1	533	401	401	3516	1	20	21

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
910	HFPDP70	203960 04/26/99	Uni-ZAP XR	920	2099	1	2099	168	3517	1	24	25	38
911	HFPDR39	203960 04/26/99	Uni-ZAP XR	921	1861	1080	1837	1455	3518	1	29	30	83
912	HFPDX08	203960 04/26/99	Uni-ZAP XR	922	993	19	922	64	3519	1	34	35	98
913	HFPPE69	203960 04/26/99	Uni-ZAP XR	923	1080	1	1080	150	3520	1	19	20	36
914	HFRU40	203960 04/26/99	Uni-ZAP XR	924	955	1	955	218	3521	1			14
915	HFRAY90	203979 04/29/99	Uni-ZAP XR	925	1164	1	1164	12	3522	1	15	16	24
916	HFSAY91	203960 04/26/99	Uni-ZAP XR	926	1929	1	1929	132	3523	1	34	35	49
917	HFSBC10	203960 04/26/99	Uni-ZAP XR	927	1444	1	1444	100	3524	1	43	44	48
918	HFSBE94	203960 04/26/99	Uni-ZAP XR	928	878	1	878	130	3525	1	35	36	41
919	HFTAN11	203960 04/26/99	Uni-ZAP XR	929	793	1	793	212	3526	1	26	27	32
920	HFTAR27	203960 04/26/99	Uni-ZAP XR	930	1441	1	1441	284	3527	1	19	20	36

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
921	HFTAR30	203960 04/26/99	Uni-ZAP XR	931	626	1	626	242	3528	1	15	16	56
922	HFTAS49	203979 04/29/99	Uni-ZAP XR	932	518	1	518	249	3529	1	19	20	23
923	HFTBB50	203960 04/26/99	Uni-ZAP XR	933	1830	1	1830	94	3530	1	16	17	136
924	HFTBL17	203979 04/29/99	Uni-ZAP XR	934	1022	1	1000	49	3531	1	24	25	33
925	HFTBL17	203979 04/29/99	Uni-ZAP XR	935	1077	1	1077	49	3532	1	24	25	33
926	HFTCF02	203960 04/26/99	Uni-ZAP XR	936	1077	123	1077	363	3533	1	19	20	20
927	HFTCI85	203960 04/26/99	Uni-ZAP XR	937	1309	1	1309	250	3534	1			8
928	HFTCI32	203960 04/26/99	Uni-ZAP XR	938	910	1	910	206	3535	1	30	31	35
929	HFTCO17	203959 04/26/99	Uni-ZAP XR	939	2894	1572	2894	1672	3536	1			13
930	HFTCW07	203960 04/26/99	Uni-ZAP XR	940	837	1	837	36	3537	1	20	21	32
931	HFTDF32	203960 04/26/99	Uni-ZAP XR	941	1377	1	1377		3538	1	8	9	14

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Pep	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
932	HFVDF79	203960 04/26/99	Uni-ZAP XR	942	1319	242	1319	617	617	3539	1	18	31
933	HFVDFK11	203960 04/26/99	Uni-ZAP XR	943	2014	321	1996	139	139	3540	1	18	187
934	HFVDFU08	203960 04/26/99	Uni-ZAP XR	944	1200	1	1200	216	216	3541	1	23	25
935	HFVDFGK7	203960 04/26/99	pBluescript	945	1295	84	1295	375	375	3542	1		21
936	HFVDFHD38	203960 04/26/99	pBluescript	946	2163	249	2163		2083	3543	1	13	27
937	HFVDFHY57	203960 04/26/99	pBluescript	947	1781	1	1781		1198	3544	1		6
938	HFVDFIC33	203917 04/08/99	pBluescript	948	2151	62	2151		462	3545	1	24	93
939	HFVDFAK32	203960 04/26/99	Lambda ZAP II	949	1829	1	1829	46	46	3546	1		12
940	HFVDFAK59	203960 04/26/99	Lambda ZAP II	950	1581	731	1581		962	3547	1	12	13
941	HFVDFBI64	203960 04/26/99	Lambda ZAP II	951	1263	1	1263		146	3548	1	21	39
942	HFVDFBL05	203960 04/26/99	Lambda ZAP II	952	1347	1	1347		203	3549	1	27	62

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
943	HFXBM52	203960 04/26/99	Lambda ZAP II	953	1277	1	1277	232	232	3550	1	27	28	30
944	HFXBR58	203960 04/26/99	Lambda ZAP II	954	1456	1	1456	263	263	3551	1	17	18	24
945	HFXBV67	203960 04/26/99	Lambda ZAP II	955	1728	1	1728	52	52	3552	1	28	29	45
946	HFXBY20	203960 04/26/99	Lambda ZAP II	956	498	1	498	89	89	3553	1	24	25	136
947	HFXCB70	203960 04/26/99	Lambda ZAP II	957	502	1	502	179	179	3554	1	17	18	19
948	HFXCI42	203960 04/26/99	Lambda ZAP II	958	1099	1	1099		275	3555	1	9	10	26
949	HFXCL59	203960 04/26/99	Lambda ZAP II	959	1757	171	1757	278	278	3556	1	13	14	14
950	HFXCM22	203960 04/26/99	Lambda ZAP II	960	1326	1	1326	49	49	3557	1			4
951	HFXCN18	203960 04/26/99	Lambda ZAP II	961	1237	1	1237	48	48	3558	1			8
952	HFXCS53	203960 04/26/99	Lambda ZAP II	962	1127	1	606	237	237	3559	1	15	16	36
953	HFXDB37	203960 04/26/99	Lambda ZAP II	963	1391	1	1391	159	159	3560	1	18	19	21

Gene No.	eDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of Signal	AA SEQ ID NO:	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
954	HFXDJ32	203960 04/26/99	Lambda ZAP II	964	1856	1	1856	204	3561	1			26
955	HFXDJ43	203960 04/26/99	Lambda ZAP II	965	1558	1	1558	186	3562	1			26
956	HFXDL76	203960 04/26/99	Lambda ZAP II	966	1858	1	1858	11	3563	1	18	19	30
957	HFXDM75	203960 04/26/99	Lambda ZAP II	967	1760	1	1760	71	3564	1	19	20	21
958	HFXDO18	203960 04/26/99	Lambda ZAP II	968	588	1	588	308	3565	1			9
959	HFXDP44	203960 04/26/99	Lambda ZAP II	969	1453	1	1453	258	3566	1	23	24	25
960	HFXDR08	203960 04/26/99	Lambda ZAP II	970	775	68	775	79	3567	1	18	19	34
961	HFXDR28	203960 04/26/99	Lambda ZAP II	971	824	1	824	338	3568	1	10	11	21
962	HFXDR28	203960 04/26/99	Lambda ZAP II	972	1298	749	1298	1086	3569	1	10	11	21
963	HFXDR47	203959 04/26/99	Lambda ZAP II	973	1808	1	1808	207	3570	1	33	34	78
964	HFXDZ03	203918 04/08/99	Lambda ZAP II	974	1349	1	1349	251	3571	1			11

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
965	HFXED33	203960 04/26/99	Lambda ZAP II	975	1953	1	1953	112	112	3572	1	19	20	34
966	HFXEE88	203960 04/26/99	Lambda ZAP II	976	1632	1	1632	59	59	3573	1	21	22	28
967	HFXGR32	203960 04/26/99	Lambda ZAP II	977	1363	1	1363		267	3574	1			16
968	HFXGT51	203960 04/26/99	Lambda ZAP II	978	1302	1	1302	42	42	3575	1	24	25	73
969	HFXGW16	203960 04/26/99	Lambda ZAP II	979	1230	1	1230	125	125	3576	1	17	18	91
970	HFXHC15	203960 04/26/99	Lambda ZAP II	980	361	1	361	158	158	3577	1	23	24	32
971	HFXH33	PTA-793 09/27/99	Lambda ZAP II	981	1603	1	1603	240	240	3578	1	16	17	39
972	HFXHL21	203960 04/26/99	Lambda ZAP II	982	1647	1	1647	70	70	3579	1	24	25	29
973	HFXHL83	203960 04/26/99	Lambda ZAP II	983	1497	1	1497	217	217	3580	1	22	23	62
974	HFXHM49	203960 04/26/99	Lambda ZAP II	984	1566	1	1566	302	302	3581	1	39	40	76

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
975	HFXHM93	PTA-181 06/07/99	Lambda ZAP II	985	1782	1	1782	307	3582	1	28	29	70
976	HFXHN89	203960 04/26/99	Lambda ZAP II	986	1406	1	1406	138	3583	1	23	24	34
977	HFXJB21	203960 04/26/99	Lambda ZAP II	987	1311	1	1311	232	3584	1	20	21	54
978	HFXJN93	203960 04/26/99	Lambda ZAP II	988	1742	1	1742	197	3585	1	23	24	44
979	HFXJS15	203959 04/26/99	Lambda ZAP II	989	1877	62	1877	356	3586	1			7
980	HFXJT53	203960 04/26/99	Lambda ZAP II	990	3013	105	3013	111	3587	1	39	40	361
981	HFXKG56	203960 04/26/99	Lambda ZAP II	991	766	1	766	273	3588	1	25	26	37
982	HFXKL60	PTA-795 09/27/99	Lambda ZAP II	992	3138	200	3104	210	3589	1	30	31	33
983	HFXLG08	PTA-793 09/27/99	Lambda ZAP II	993	1698	1	1698	306	3590	1	25	26	104
984	HFXLK91	203960 04/26/99	Lambda ZAP II	994	1848	1	1848	120	3591	1	20	21	399

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Peptide	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
985	HFXML32	PTA-181 06/07/99	Lambda ZAP II	995	740	1	740	378	3592	1		23
986	HGBAX83	203960 04/26/99	Uni-ZAP XR	996	1015	1	1012	151	3593	1	32	39
987	HGBBR29	203959 04/26/99	Uni-ZAP XR	997	1906	1	1693	251	3594	1	16	61
988	HGBDL51	PTA-181 06/07/99	Uni-ZAP XR	998	1216	1	1216	25	3595	1	31	48
989	HGBDV35	203960 04/26/99	Uni-ZAP XR	999	1191	1	1191	52	3596	1	25	71
990	HGBDX28	203960 04/26/99	Uni-ZAP XR	1000	1418	1	1409	231	3597	1		7
991	HGBGX31	203960 04/26/99	Uni-ZAP XR	1001	1854	454	1838	548	3598	1	24	60
992	HGBHE23	203917 04/08/99	Uni-ZAP XR	1002	695	27	695	243	3599	1	23	71
993	HGBH115	203960 04/26/99	Uni-ZAP XR	1003	686	1	686	30	3600	1	20	30
994	HGCMW39	203917 04/08/99	pSport1	1004	2310	816	2310	1005	3601	1	23	32

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of AA NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
995	HGLAG32	203960 04/26/99	Uni-ZAP XR	1005	774	1	774	39	3602	1	18	19	34
996	HGLAH08	203960 04/26/99	Uni-ZAP XR	1006	614	1	614	162	3603	1	27	28	28
997	HGLAH86	203960 04/26/99	Uni-ZAP XR	1007	849	1	849	161	3604	1	15	16	42
998	HGLBC33	203960 04/26/99	Uni-ZAP XR	1008	762	1	762	91	3605	1	9	10	30
999	HGLBG15	203960 04/26/99	Uni-ZAP XR	1009	778	1	778		3606	1			26
1000	HGLBM55	203960 04/26/99	Uni-ZAP XR	1010	1621	291	1619	546	3607	1	18	19	37
1001	HGLDA95	PTA-181 06/07/99	Uni-ZAP XR	1011	962	1	962	39	3608	1	36	37	72
1002	HGLDB06	PTA-181 06/07/99	Uni-ZAP XR	1012	841	1	841		3609	1	17	18	39
1003	HGLDE15	203960 04/26/99	Uni-ZAP XR	1013	458	1	458		3610	1	20	21	28
1004	HHBE14	PTA-181 06/07/99	pCMVSPORT 1	1014	1537	1	1537	268	3611	1	41	42	48

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO; X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First AA of NO; Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1005	HHBGL33	PTA-181 06/07/99	pCMVSPORT 1	1015	519	1	519	219	3612	1	18	21
1006	HHBAW44	203960 04/26/99	pCMVSPORT 3.0	1016	1734	1	1734	58	3613	1	9	36
1007	HHBEP28	203960 04/26/99	pCMVSPORT 3.0	1017	1908	8	1830	72	3614	1	19	54
1008	HHBCK41	PTA-795 09/27/99	pCMVSPORT 3.0	1018	513	1	513	51	3615	1	34	116
1009	HHBECR10	203960 04/26/99	pCMVSPORT 3.0	1019	1030	1	1030	128	3616	1	14	32
1010	HHBEC55	203960 04/26/99	pCMVSPORT 3.0	1020	1063	1	1063	54	3617	1	19	46
1011	HHBEM20	203960 04/26/99	pCMVSPORT 3.0	1021	1749	1	1749	282	3618	1	25	42
1012	HHBEMM80	203960 04/26/99	pCMVSPORT 3.0	1022	138	1	138	31	3619	1	20	36
1013	HHBEMP35	203960 04/26/99	pCMVSPORT 3.0	1023	1985	1320	1985	1334	3620	1	20	51
1014	HHBEMZ08	203960 04/26/99	pCMVSPORT 3.0	1024	1576	1	1576	70	3621	1	21	106

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1015	HHENC17	203960 04/26/99	pCMVSPORT 3.0	1025	2238	77	1699	187	187	3622	1	31	32	36
1016	HHENF95	203960 04/26/99	pCMVSPORT 3.0	1026	1126	1	1126		206	3623	1			18
1017	HHENR74	203960 04/26/99	pCMVSPORT 3.0	1027	1141	1	1141	5	5	3624	1	18	19	62
1018	HHENU33	203960 04/26/99	pCMVSPORT 3.0	1028	1580	1	1580	143	143	3625	1	24	25	30
1019	HHENY07	203960 04/26/99	pCMVSPORT 3.0	1029	2138	1	2138	87	87	3626	1	16	17	18
1020	HHOK77	203960 04/26/99	pCMVSPORT 3.0	1030	2489	537	1154	790	790	3627	1	42	43	54
1021	HHPE72	203960 04/26/99	pCMVSPORT 3.0	1031	1060	1	1060	344	344	3628	1			10
1022	HHPE81	203960 04/26/99	pCMVSPORT 3.0	1032	3333	1017	1973	1393	1393	3629	1			7
1023	HHPEM64	203918 04/08/99	pCMVSPORT 3.0	1033	2020	520	2020	559	559	3630	1	20	21	34
1024	HHQ104	203960 04/26/99	pCMVSPORT 3.0	1034	747	1	747	476	476	3631	1	39	40	45
1025	HHQY60	203960 04/26/99	pCMVSPORT 3.0	1035	735	1	735	180	180	3632	1			2

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1026	HHFBA31	203960 04/26/99	Uni-ZAP XR	1036	1723	1	1723	131	131	3633	1	23	24	44
1027	HHFC181	203979 04/29/99	Uni-ZAP XR	1037	1054	1	1054	68	68	3634	1	18	19	37
1028	HHFCN78	203960 04/26/99	Uni-ZAP XR	1038	1401	1	1401	161	161	3635	1	24	25	31
1029	HHFCT95	203960 04/26/99	Uni-ZAP XR	1039	1447	1	1447	24	24	3636	1	18	19	22
1030	HHFDN16	203960 04/26/99	Uni-ZAP XR	1040	1821	1	1821	183	183	3637	1	26	27	30
1031	HHFEB79	PTA-181 06/07/99	Uni-ZAP XR	1041	3168	1	3168	120	120	3638	1	18	19	756
1031	HHFEB79	PTA-181 06/07/99	Uni-ZAP XR	2603	2443	1	2443	715	715	5200	1	18	19	571
1032	HHFEC39	203960 04/26/99	Uni-ZAP XR	1042	1302	1	1302		1211	3639	1			1
1033	HHFEN34	203960 04/26/99	Uni-ZAP XR	1043	1158	1	1158		270	3640	1			7
1034	HHFEZ01	203979 04/29/99	Uni-ZAP XR	1044	2046	232	2046		288	3641	1	22	23	35

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1035	HHFGI71	203960 04/26/99	Uni-ZAP XR	1045	1590	1	1590	62	62	3642	1	24	25	32
1036	HHFGJ54	203960 04/26/99	Uni-ZAP XR	1046	1711	1	1710	68	68	3643	1			17
1037	HHFGL38	203960 04/26/99	Uni-ZAP XR	1047	2764	1	2764	19	19	3644	1			34
1038	HHFGR75	203960 04/26/99	Uni-ZAP XR	1048	1019	1	1019		213	3645	1	16	17	37
1039	HHFGZ23	203960 04/26/99	Uni-ZAP XR	1049	1279	1	1097	17	17	3646	1	16	17	28
1040	HHFHG26	203960 04/26/99	Uni-ZAP XR	1050	724	1	724	200	200	3647	1	21	22	31
1041	HHFHM47	203960 04/26/99	Uni-ZAP XR	1051	859	1	859		231	3648	1			1
1042	HHGAA76	203960 04/26/99	Lambda ZAP II	1052	1932	1	1932	223	223	3649	1			17
1043	HHGAD46	203960 04/26/99	Lambda ZAP II	1053	1302	201	1302	363	363	3650	1			9
1044	HHGAT09	203960 04/26/99	Lambda ZAP II	1054	545	1	545		314	3651	1			16
1045	HHGBC21	203960 04/26/99	Lambda ZAP II	1055	1141	1	1141	121	121	3652	1	28	29	34

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	NT of Clone Seq.	5' NT of Clone Seq.	5' NT of AA of Signal Pep	AA SEQ ID NO:	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1046	HHGBF91	203960 04/26/99	Lambda ZAP II	1056	1	655	36	3653	1	12	13	46
1047	HHGBG63	203960 04/26/99	Lambda ZAP II	1057	1	798	25	3654	1	26	27	126
1048	HHGBV02	203960 04/26/99	Lambda ZAP II	1058	1	1221	220	3655	1	18	19	66
1049	HHGBW55	203960 04/26/99	Lambda ZAP II	1059	1	438		3656	1	21	22	49
1050	HHGBX88	PTA-181 06/07/99	Lambda ZAP II	1060	1	293	234	3657	1	22	23	69
1051	HHGCA26	203960 04/26/99	Lambda ZAP II	1061	1	542	137	3658	1	15	16	38
1052	HHGDA81	203960 04/26/99	Lambda ZAP II	1062	1060	1026	676	3659	1			19
1053	HHGDI12	203960 04/26/99	Lambda ZAP II	1063	1240	1	1240	21	3660	1	26	84
1054	HHGDR05	203960 04/26/99	Lambda ZAP II	1064	826	1	826	73	3661	1	19	36
1055	HHGDR92	203960 04/26/99	Lambda ZAP II	1065	1174	1	1174	113	3662	1	15	20

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
1056	HHGDS56	203960 04/26/99	Lambda ZAP II	1066	1502	1	1502	224	224	3663	1	17	18	27
1057	HHGDW65	203960 04/26/99	Lambda ZAP II	1067	814	1	814		223	3664	1	29	30	32
1058	HHLBA86	203959 04/26/99	pBluescript SK-	1068	1303	1	1303	363	363	3665	1	27	28	39
1059	HHNAC56	203960 04/26/99	pBluescript SK-	1069	1522	1	1522	131	131	3666	1	34	35	36
1060	HHPBG90	203960 04/26/99	Uni-ZAP XR	1070	1572	1	1572	127	127	3667	1	46	47	77
1061	HHPDE28	PTA-791 09/27/99	Uni-ZAP XR	1071	1631	1	1625	290	290	3668	1			26
1062	HHPDJ11	203960 04/26/99	Uni-ZAP XR	1072	1902	1	1902	113	113	3669	1			10
1063	HHPDX86	203960 04/26/99	Uni-ZAP XR	1073	2054	1	2054	350	350	3670	1	23	24	31
1064	HHPEA17	203960 04/26/99	Uni-ZAP XR	1074	1003	1	1003	278	278	3671	1	14	15	39
1065	HHPEB61	203960 04/26/99	Uni-ZAP XR	1075	1832	1	1832	56	56	3672	1	29	30	42

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1066	HHPFP26	203960 04/26/99	Uni-ZAP XR	1076	2352	1	2352		24	3673	1	27	28	80
1067	HHPFS11	203960 04/26/99	Uni-ZAP XR	1077	1050	1	1050	125	125	3674	1	21	22	37
1068	HHPFS15	203979 04/29/99	Uni-ZAP XR	1078	746	1	746	139	139	3675	1	26	27	30
1069	HHPFS18	203960 04/26/99	Uni-ZAP XR	1079	2608	1	2608	127	127	3676	1	28	29	38
1070	HHPGH34	203960 04/26/99	Uni-ZAP XR	1080	1067	1	1067		219	3677	1			5
1071	HHPGU74	203960 04/26/99	Uni-ZAP XR	1081	2466	1	2466	77	77	3678	1	25	26	77
1072	HHPGU87	203960 04/26/99	Uni-ZAP XR	1082	2549	1	2549	242	242	3679	1			28
1073	HHPSD42	203960 04/26/99	pBluescript	1083	1068	1	1068	79	79	3680	1	16	17	34
1074	HHPSE03	203960 04/26/99	pBluescript	1084	1546	1	1546	86	86	3681	1	37	38	66
1075	HHPSE55	203960 04/26/99	pBluescript	1085	1392	18	1213	122	122	3682	1	28	29	33
1076	HHPSF70	203917 04/08/99	pBluescript	1086	1250	330	1250		465	3683	1	14	15	34

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1077	HHPSSH74	203960 04/26/99	pBluescript	1087	2107	1	2107	167	167	3684	1	26	27	29
1078	HHPSL14	203979 04/29/99	pBluescript	1088	1174	1	1174	65	65	3685	1	38	39	39
1079	HHPSTM40	203960 04/26/99	pBluescript	1089	2029	1	2029	23	23	3686	1	25	26	30
1080	HHPFTF26	PTA-181 06/07/99	Uni-ZAP XR	1090	1035	162	1035	248	248	3687	1	18	19	38
1081	HHSAD31	203960 04/26/99	Uni-ZAP XR	1091	458	1	458	333	333	3688	1			6
1082	HHSAE74	203918 04/08/99	Uni-ZAP XR	1092	1610	1	1610		151	3689	1			22
1083	HHSAG62	203979 04/29/99	Uni-ZAP XR	1093	1085	1	1085		78	3690	1	16	17	28
1084	HHSBK17	203960 04/26/99	Uni-ZAP XR	1094	910	1	910	161	161	3691	1			16
1085	HHSB192	203960 04/26/99	Uni-ZAP XR	1095	1654	1	1654		310	3692	1	13	14	74
1086	HHSBN84	203960 04/26/99	Uni-ZAP XR	1096	1193	357	1192	432	432	3693	1	17	18	27

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1087	HHSC124	203960 04/26/99	Uni-ZAP XR	1097	983	1	983	275	3694	1	7	8	25
1088	HHSCQ67	203960 04/26/99	Uni-ZAP XR	1098	847	1	847	112	3695	1	29	30	40
1089	HHSCU12	203960 04/26/99	Uni-ZAP XR	1099	282	1	282	175	3696	1	17	18	36
1090	HHSCB43	203960 04/26/99	Uni-ZAP XR	1100	2707	1	1366	46	3697	1	17	18	433
1091	HHSDL07	PTA-1838 05/09/00	Uni-ZAP XR	1101	429	1	429	22	3698	1	23	24	38
1092	HHSDX07	203979 04/29/99	Uni-ZAP XR	1102	1721	23	1721	40	3699	1	16	17	39
1093	HHSHF54	203960 04/26/99	Uni-ZAP XR	1103	1287	1	1287	591	3700	1	21	22	28
1094	HHSCB85	203960 04/26/99	Uni-ZAP XR	1104	1290	1	1288	145	3701	1	18	19	31
1095	HHSCGL84	203960 04/26/99	Uni-ZAP XR	1105	1037	454	1037	847	3702	1	15	16	17
1096	HHHLH79	203960 04/26/99	ZAP Express	1106	946	1	946	55	3703	1	21	22	50

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1097	HIABC70	203960 04/26/99	Uni-ZAP XR	1107	1636	1	1636	130	3704	1	31	32	65
1098	HIATG10	PTA-181 06/07/99	pBluescript	1108	409	133	409	140	3705	1	30	31	34
1099	HIBC070	PTA-181 06/07/99	Other	1109	1652	1	1652	124	3706	1	23	24	43
1100	HIBCR82	203960 04/26/99	Other	1110	1528	1	1528	104	3707	1	27	28	55
1101	HIBDA41	203960 04/26/99	Other	1111	1790	1	1790	47	3708	1			24
1102	HIBEC45	203960 04/26/99	Other	1112	2324	517	2324	779	3709	1	23	24	53
1103	HILBW03	203979 04/29/99	pBluescript SK-	1113	2913	1	2913	331	3710	1	22	23	35
1104	HISAE16	203959 04/26/99	pSport1	1114	424	1	424	73	3711	1			11
1105	HISAG33	203918 04/08/99	pSport1	1115	1844	817	1844	944	3712	1	19	20	28
1106	HISAN63	203957 04/26/99	pSport1	1116	2124	1	2124	597	3713	1	22	23	38

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	5' NT of Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of 5' NT Start Codon	5' NT of AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1107	HISAT78	203957 04/26/99	pSport1	1117 X	2312	835	2287	967	3714	1	29	30
1108	HISBA38	203957 04/26/99	pSport1	1118	1058	1	1058	169	3715	1	32	36
1109	HISBB66	203957 04/26/99	pSport1	1119	2732	1309	2732	1536	3716	1	17	25
1110	HISCJ20	203957 04/26/99	pSport1	1120	372	1	372	257	3717	1	24	38
1111	HISCK41	203957 04/26/99	pSport1	1121	2043	1	2043	82	3718	1	28	33
1112	HISCO45	203957 04/26/99	pSport1	1122	1557	116	1541	315	3719	1		32
1113	HISEJ52	203957 04/26/99	pSport1	1123	1699	1	1699	480	3720	1	1	406
1113	HISEJ52	203957 04/26/99	pSport1	2604	1599	1	1599	369	5201	1	1	317
1114	HIABC58	203957 04/26/99	pBluescript SK-	1124	1796	1	1796	193	3721	1	26	58
1115	HIABG59	PTA-181 06/07/99	pBluescript SK-	1125	1535	1	1535		3722	1		14

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1116	H1ABR75	203957 04/26/99	pBluescript SK-	1126	1328	1	1328	324	324	3723	1	18	19	37
1117	H1ABS31	203957 04/26/99	pBluescript SK-	1127	1232	42	1232		1	3724	1	1	2	410
1118	H1ABT12	203957 04/26/99	pBluescript SK-	1128	557	1	557	30	30	3725	1	16	17	37
1119	H1ACE25	203957 04/26/99	pBluescript SK-	1129	1320	1	1320	322	322	3726	1			26
1120	H1ACK21	203957 04/26/99	pBluescript SK-	1130	1271	1	1271	139	139	3727	1	21	22	35
1121	H1BCG74	203957 04/26/99	pBluescript SK-	1131	2455	12	2428	33	33	3728	1	30	31	224
1122	H1BCO21	203957 04/26/99	pBluescript SK-	1132	587	1	553	289	289	3729	1			11
1123	H1BCQ40	203957 04/26/99	pBluescript SK-	1133	1069	1	1069	161	161	3730	1	20	21	51
1124	H1BDM36	203957 04/26/99	pBluescript SK-	1134	2777	1716	2760	1954	1954	3731	1	18	19	40
1125	H1MAF30	203957 04/26/99	pCMVSPORT 3.0	1135	603	1	603	193	193	3732	1	24	25	34
1126	H1MAM72	203957 04/26/99	pCMVSPORT 3.0	1136	403	1	403	300	300	3733	1	17	18	25

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1127	HJMAZ60	203979 04/29/99	pCMV Sport 3.0	1137	2968	1393	2915	1441	3734	1	25	26	45
1128	HJMBB20	203957 04/26/99	pCMV Sport 3.0	1138	3021	1305	3021	1376	3735	1	25	26	36
1129	HJMBB20	203957 04/26/99	pCMV Sport 3.0	1139	3953	2237	3953	2308	3736	1	25	26	36
1130	HJMBB20	203957 04/26/99	pCMV Sport 3.0	1140	3953	2237	3953	2308	3737	1	25	26	36
1131	HJMBK59	203957 04/26/99	pCMV Sport 3.0	1141	658	1	658	42	3738	1	24	25	70
1132	HJMBP01	203957 04/26/99	pCMV Sport 3.0	1142	633	1	633	58	3739	1	42	43	45
1133	HJMBQ17	203957 04/26/99	pCMV Sport 3.0	1143	275	1	275	145	3740	1	15	16	29
1134	HJMBW62	203957 04/26/99	pCMV Sport 3.0	1144	1439	1	1439	105	3741	1	18	19	58
1135	HJMBX54	203957 04/26/99	pCMV Sport 3.0	1145	1020	1	1020	81	3742	1	17	18	33
1136	HJPAF69	203957 04/26/99	Uni-ZAP XR	1146	1076	1	1076	25	3743	1	16	17	33
1137	HJPAQ19	203957 04/26/99	Uni-ZAP XR	1147	1109	1	1109	66	3744	1	50	51	290

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1138	H1PAZ35	203979 04/29/99	Uni-ZAP XR	1148	1963	665	1940	832	3745	1			24
1139	H1PBI77	203957 04/26/99	Uni-ZAP XR	1149	808	1	538	68	3746	1	23	24	25
1140	H1PBN96	203957 04/26/99	Uni-ZAP XR	1150	1036	1	1036	70	3747	1	27	28	73
1141	H1PBU47	203959 04/26/99	Uni-ZAP XR	1151	938	234	936	370	3748	1	45	46	55
1142	H1PCQ19	203957 04/26/99	Uni-ZAP XR	1152	902	1	902	188	3749	1			27
1143	H1PDI08	203957 04/26/99	Uni-ZAP XR	1153	1044	1	1044	134	3750	1	19	20	33
1144	H1PDK61	203918 04/08/99	Uni-ZAP XR	1154	1417	78	1417	320	3751	1	11	12	67
1145	H1KAB153	203917 04/08/99	pCMV Sport 2.0	1155	1377	324	1377	642	3752	1			7
1146	H1KABN63	203957 04/26/99	pCMV Sport 2.0	1156	905	1	905	269	3753	1	22	23	144
1147	H1KACA25	203917 04/08/99	pCMV Sport 2.0	1157	1888	145	1813		3754	1	12	13	18

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1148	HKACO64	PTA-795 09/27/99	1158	1899	1	1898	290	290	3755	1	24	25	96
1149	HKACP50	203957 04/26/99	1159	1987	466	1941	530	530	3756	1			15
1150	HKACX90	203957 04/26/99	1160	906	1	906		146	3757	1			24
1151	HKADI27	203918 04/08/99	1161	4597	708	4597	125	125	3758	1	25	26	148
1151	HKADI27	203918 04/08/99	2605	2175	1	2175	243	243	5202	1			18
1152	HKADN26	203957 04/26/99	1162	558	206	558	335	335	3759	1			14
1153	HKADP79	203957 04/26/99	1163	1442	78	1442	462	462	3760	1	19	20	36
1154	HKADT55	203957 04/26/99	1164	1228	1	1228	62	62	3761	1	20	21	25
1155	HKAEK58	203957 04/26/99	1165	2241	1	2241	154	154	3762	1	1	2	377
1156	HKAEK72	203957 04/26/99	1166	1577	1	1577	78	78	3763	1	19	20	175

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of Signal	AA ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1157	HKAFJ47	203918 04/08/99	pCMVSPORT 2.0	1167	2110	1	2110	145	3764	1	24	25	31
1158	HKAFQ41	203979 04/29/99	pCMVSPORT 2.0	1168	1825	315	1791	487	3765	1	25	26	59
1159	HKAHH71	203979 04/29/99	pCMVSPORT 2.0	1169	1349	1	1349	462	3766	1	21	22	48
1160	HKAJA95	203957 04/26/99	pCMVSPORT 2.0	1170	1273	29	1273	73	3767	1			11
1161	HKAKU90	203957 04/26/99	pCMVSPORT 2.0	1171	1468	1	1468		3768	1	1	2	417
1162	HKCSZ54	203957 04/26/99	pBluescript	1172	1176	1	1176	33	3769	1	26	27	38
1163	HKFAA15	203957 04/26/99	ZAP Express	1173	1779	1	1779	114	3770	1	15	16	19
1164	HKFBB08	203957 04/26/99	ZAP Express	1174	1473	1	1473	142	3771	1	29	30	30
1165	HKGAG59	203957 04/26/99	pSport1	1175	779	1	779	290	3772	1	20	21	31
1166	HKGJA81	203957 04/26/99	pSport1	1176	1332	1	1332	151	3773	1	16	17	37
1167	HKGAK45	203957 04/26/99	pSport1	1177	2129	1	2129	762	3774	1	22	23	44

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1168	HKGAP04	203979 04/29/99	pSport1	1178	2332	1	2332	213	3775	1	32	33	33
1169	HKGAP57	203918 04/08/99	pSport1	1179	1907	73	1907	1155	3776	1	30	31	44
1170	HKGAW41	PTA-181 06/07/99	pSport1	1180	1639	102	1639		379	3777	1	22	25
1171	HKGAB21	203957 04/26/99	pSport1	1181	1858	1	1858	109	3778	1	26	27	38
1172	HKGBC33	203957 04/26/99	pSport1	1182	1036	1	1036	43	3779	1	21	22	39
1173	HKGBC73	203957 04/26/99	pSport1	1183	849	1	849	301	3780	1	16	17	32
1174	HKGBF61	203957 04/26/99	pSport1	1184	1759	1	1759	225	3781	1	18	19	25
1175	HKGBC54	203957 04/26/99	pSport1	1185	2220	1	2220	351	3782	1	41	42	45
1176	HKGBC52	PTA-795 09/27/99	pSport1	1186	2702	1	2702	36	3783	1	25	26	42
1177	HKGCE23	203957 04/26/99	pSport1	1187	1785	1	1410	136	3784	1	21	22	29

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
1178	HKGCE62	203957 04/26/99	pSport1	1188	1162	1	1162	44	44	3785	1	32	33	40
1179	HKGCK41	203957 04/26/99	pSport1	1189	1024	1	1024	308	308	3786	1	50	51	102
1180	HKGCK41	203957 04/26/99	pSport1	1190	2191	1	1040	316	316	3787	1	50	51	102
1181	HKGCN96	203957 04/26/99	pSport1	1191	1103	1	1103	303	303	3788	1			14
1182	HKGCX05	203957 04/26/99	pSport1	1192	1658	1	1658	329	329	3789	1	22	23	57
1183	HKGDA95	203957 04/26/99	pSport1	1193	1167	1	1167		302	3790	1	49	50	122
1184	HKGDOI2 181	PTA- 06/07/99	pSport1	1194	1671	1	1671	145	145	3791	1	18	19	65
1185	HKIME53	203957 04/26/99	Lambda ZAP II	1195	506	1	506	26	26	3792	1	20	21	40
1186	HKIMG23	203957 04/26/99	Lambda ZAP II	1196	1721	732	1696	751	751	3793	1	22	23	55
1187	HKIXB73	203957 04/26/99	pBluescript	1197	1994	1	1994	235	235	3794	1	18	19	30

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ NO: Y	First AA of Sig Pep	Last AA of Secreted Portion	Last AA of ORF	
1188	HKIXD68	203957 04/26/99	pBluescript	1198	443	1	443	133	3795	1	26	27	38
1189	HKIXR91	203957 04/26/99	pBluescript	1199	1560	1	1560	10	3796	1	23	24	46
1190	HKIXS19	203957 04/26/99	pBluescript	1200	463	1	463	183	3797	1	30	31	31
1191	HKIXW45	203957 04/26/99	pBluescript	1201	477	1	477	196	3798	1	22	23	32
1192	HKIYU90	203957 04/26/99	pBluescript	1202	687	1	687	396	3799	1	14	15	17
1193	HKMLB81	203957 04/26/99	pBluescript	1203	1877	1	1877	59	3800	1	24	25	33
1194	HKMLF77	203957 04/26/99	pBluescript	1204	782	1	782	203	3801	1	17	18	30
1195	HKMLM32	203957 04/26/99	pBluescript	1205	1003	1	1003	287	3802	1	13	14	15
1196	HKMLR17	203979 04/29/99	pBluescript	1206	1692	1	1692	329	3803	1	29	30	294
1197	HKMLT89	203957 04/26/99	pBluescript	1207	1274	1	1274	87	3804	1	30	31	40
1198	HKMLV05	203957 04/26/99	pBluescript	1208	1601	223	1601	494	3805	1	18	19	32

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO:	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1199	HKMLV25	203957 04/26/99	pBluescript	1209	766	1	766	251	3806	1	26	31
1200	HKMMB79	203917 04/08/99	pBluescript	1210	3237	900	3230	1109	3807	1	16	37
1201	HKMMC69	PTA-181 06/07/99	pBluescript	1211	2070	1	2070	150	3808	1	20	33
1202	HKMMD91	203979 04/29/99	pBluescript	1212	1259	1	1259	312	3809	1	8	26
1203	HKMMP90	203957 04/26/99	pBluescript	1213	1905	1	1905	361	3810	1		21
1204	HKMMU76	203957 04/26/99	pBluescript	1214	1147	101	1147	228	3811	1	29	55
1205	HKPAC10	203957 04/26/99	Uni-ZAP XR	1215	998	1	998	126	3812	1		12
1206	HKPAC50	203957 04/26/99	Uni-ZAP XR	1216	810	31	810	334	3813	1	11	25
1207	HKPMA08	203957 04/26/99	pBluescript	1217	436	1	436	181	3814	1	31	37
1208	HKTAC18	203957 04/26/99	Uni-ZAP XR	1218	3714	1908	3714	2010	3815	1	17	23

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Secreted Portion	Last AA of ORF
1209	HLISA89	203957 04/26/99	pBluescript	1219	1263	1017	1219	1030	1030	3816	1		18
1210	HL2AB60	203957 04/26/99	Uni-ZAP XR	1220	1476	1	1476		145	3817	1	27	383
1211	HL3AE69	203957 04/26/99	Uni-ZAP XR	1221	475	1	475		41	3818	1	16	44
1212	HL3AF32	203957 04/26/99	Uni-ZAP XR	1222	2708	77	2708		281	3819	1	19	37
1213	HLDAV70	203957 04/26/99	pCMV Sport 3.0	1223	1314	1	1314	38	38	3820	1		29
1214	HLDBL62	PTA-1838 05/09/00	pCMV Sport 3.0	1224	1022	1	1022		372	3821	1	20	123
1215	HLDBV18	203957 04/26/99	pCMV Sport 3.0	1225	2820	888	2820	1176	1176	3822	1	22	40
1216	HLDBV54	203957 04/26/99	pCMV Sport 3.0	1226	787	1	787	147	147	3823	1	50	74
1217	HLDCR26	PTA-181 06/07/99	pCMV Sport 3.0	1227	2638	496	2480	759	759	3824	1	21	43
1218	HLDDM27	PTA-181 06/07/99	pCMV Sport 3.0	1228	787	94	779	169	169	3825	1	19	67

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1219	HLD DM27	PTA-181 06/07/99	pCMV Sport 3.0	1229	799	102	788	177	3826	1	19	20	67
1220	HLD NF18	203957 04/26/99	pCMV Sport 3.0	1230	1726	175	1686	197	3827	1	23	24	129
1221	HLD NN84	203957 04/26/99	pCMV Sport 3.0	1231	936	1	936	12	3828	1	29	30	36
1222	HLD OD77	203957 04/26/99	pCMV Sport 3.0	1232	698	1	698	106	3829	1	25	26	31
1223	HLD OL74	203957 04/26/99	pCMV Sport 3.0	1233	903	1	903	193	3830	1	26	27	46
1224	HLD PB24	PTA-181 06/07/99	pCMV Sport 3.0	1234	1971	85	1971	238	3831	1	25	26	55
1225	HLD RU08	203957 04/26/99	pCMV Sport 3.0	1235	1086	1	1086	161	3832	1	20	21	51
1226	HLD XF43	203957 04/26/99	pSport1	1236	559	1	559	28	3833	1	36	37	51
1227	HLE AA10	203957 04/26/99	Uni-ZAP XR	1237	1425	1	1425	34	3834	1	22	23	44
1228	HLE AA24	203917 04/08/99	Uni-ZAP XR	1238	2324	1	2324	46	3835	1	20	21	45

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1229	HLHAE14	PTA-181 06/07/99	Uni-ZAP XR	1239	2041	1	2032	17	17	3836	1	22	23	40
1230	HLHAE14	PTA-181 06/07/99	Uni-ZAP XR	1240	2054	1	2033	17	17	3837	1	22	23	40
1231	HLHBS4	203957 04/26/99	Uni-ZAP XR	1241	4038	2309	4023	73	73	3838	1	1	2	343
1232	HLHCB33	203957 04/26/99	Uni-ZAP XR	1242	1674	1	1674	9	9	3839	1	21	22	55
1233	HLHCF14	203957 04/26/99	Uni-ZAP XR	1243	878	1	878	423	423	3840	1	11	12	52
1234	HLHCG24	203979 04/29/99	Uni-ZAP XR	1244	1134	1	1134	140	140	3841	1	14	15	51
1235	HLHCH20	203957 04/26/99	Uni-ZAP XR	1245	1260	1	1260	157	157	3842	1			16
1236	HLHCN51	203957 04/26/99	Uni-ZAP XR	1246	1818	1	1818	237	237	3843	1	15	16	48
1237	HLHCT96	PTA-793 09/27/99	Uni-ZAP XR	1247	2154	1	2154	182	182	3844	1			10
1238	HLHDC33	203918 04/08/99	Uni-ZAP XR	1248	947	1	947		63	3845	1			1

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1239	HLHDF92	203918 04/08/99	Uni-ZAP XR	1249	808	1	808	515	3846	1	15	32
1240	HLHDJ05	203918 04/08/99	Uni-ZAP XR	1250	839	1	839	73	3847	1	18	21
1241	HLHDL37	203979 04/29/99	Uni-ZAP XR	1251	971	1	971	94	3848	1		7
1242	HLHDL69	203979 04/29/99	Uni-ZAP XR	1252	2351	363	2332	432	3849	1	21	38
1243	HLHDL69	203979 04/29/99	Uni-ZAP XR	1253	2516	364	2502	433	3850	1	21	38
1244	HLHDL69	203979 04/29/99	Uni-ZAP XR	1254	2556	364	2556	433	3851	1	21	38
1245	HLHDL69	203979 04/29/99	Uni-ZAP XR	1255	2127	364	2127	433	3852	1	21	38
1246	HLHDM38	203957 04/26/99	Uni-ZAP XR	1256	1105	1	1105	282	3853	1	12	41
1247	HLHDR02	203957 04/26/99	Uni-ZAP XR	1257	1274	1	1274	157	3854	1		15
1248	HLHDY94	203979 04/29/99	Uni-ZAP XR	1258	1491	1	1491	153	3855	1	18	60
1249	HLHEE27	203979 04/29/99	Uni-ZAP XR	1259	3045	1107	2270	1260	3856	1	23	61

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First AA of NO: Y	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1250	HLHEE38	203957 04/26/99	Uni-ZAP XR	1260	880	1	880	270	270	3857	1			17
1251	HLHEI72	PTA-791 09/27/99	Uni-ZAP XR	1261	1154	1	1154	89	89	3858	1	15	16	146
1252	HLHEX62	203957 04/26/99	Uni-ZAP XR	1262	1124	1	1124	23	23	3859	1	20	21	54
1253	HLHFK39	203957 04/26/99	Uni-ZAP XR	1263	816	1	816	220	220	3860	1	22	23	26
1254	HLHFP09	203957 04/26/99	Uni-ZAP XR	1264	1232	1	1232	133	133	3861	1	26	27	31
1255	HLHGG78	203957 04/26/99	Uni-ZAP XR	1265	854	1	854	461	461	3862	1	19	20	23
1256	HLHSG15	203957 04/26/99	pBluescript	1266	2092	1	2092		1368	3863	1	8	9	62
1257	HLHSQ35	203957 04/26/99	pBluescript	1267	1352	1	1352	39	39	3864	1	21	22	26
1258	HLHTB92	203957 04/26/99	pBluescript	1268	1658	1	1658	162	162	3865	1	32	33	37
1259	HLHTP55	203979 04/29/99	pBluescript	1269	774	1	774	161	161	3866	1	19	20	43

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Pep	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1260	HLIBD74	203957 04/26/99	pCMVSPORT 1	1270	411	1	411	127	3867	1	20	70
1261	HLIBE41	203957 04/26/99	pCMVSPORT 1	1271	779	97	779	198	3868	1	22	33
1262	HLIBO16	203957 04/26/99	pCMVSPORT 1	1272	638	202	638	467	3869	1	21	23
1263	HLIBI22	203957 04/26/99	pCMVSPORT 1	1273	1055	1	1055	416	3870	1	16	58
1264	HLJEE16	203979 04/29/99	pCMVSPORT 1	1274	1161	1	1161	38	3871	1	16	28
1265	HLLAX64	203957 04/26/99	pCMVSPORT 1	1275	1681	1	1681	282	3872	1	24	32
1266	HLLAX95	203957 04/26/99	pCMVSPORT 1	1276	678	1	678	99	3873	1	43	46
1267	HLLCD67	203957 04/26/99	pCMVSPORT 1	1277	610	1	610	237	3874	1	8	24
1268	HLMBX89	203957 04/26/99	Lambda ZAP II	1278	1264	1	1264	249	3875	1	28	32
1269	HLMBZ14	203957 04/26/99	Lambda ZAP II	1279	942	1	942	160	3876	1	27	55
1270	HLMCT51	203957 04/26/99	Uni-ZAP XR	1280	1522	1	1522	63	3877	1		9

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1271	HLMCT95	203957 04/26/99	Uni-ZAP XR	1281	1446	1	1446	195	195	3878	1	43	44	50
1272	HLMDD65	203957 04/26/99	Uni-ZAP XR	1282	1193	1	1193		183	3879	1	21	22	34
1273	HLMDDH01	203957 04/26/99	Uni-ZAP XR	1283	921	1	621	71	71	3880	1	16	17	57
1274	HLMDDU23	203957 04/26/99	Uni-ZAP XR	1284	1059	1	1059	21	21	3881	1	21	22	72
1275	HLMDFB62	203957 04/26/99	Lambda ZAP II	1285	590	1	590	268	268	3882	1			15
1276	HLMDFG52	203957 04/26/99	Lambda ZAP II	1286	965	1	965	185	185	3883	1	16	17	23
1277	HLMDFU53	203957 04/26/99	Lambda ZAP II	1287	1175	236	1175		520	3884	1	9	10	59
1278	HLMHGG68	203957 04/26/99	Lambda ZAP II	1288	1340	1	1340	141	141	3885	1	44	45	86
1279	HLMHNN06	PTA-181 06/07/99	Lambda ZAP II	1289	656	1	656	21	21	3886	1			19
1280	HLMHS15	203957 04/26/99	Lambda ZAP II	1290	927	1	927	271	271	3887	1	17	18	33

Gene No.	eDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1281	HLMM84	203957 04/26/99	Lambda ZAP II	1291	1635	1	1635	124	3888	1	20	21	48
1282	HLMIN52	203957 04/26/99	Lambda ZAP II	1292	1246	1	1246	100	3889	1			20
1283	HLMIQ83	203957 04/26/99	Lambda ZAP II	1293	358	1	358	38	3890	1	25	26	98
1284	HLMIW76	203957 04/26/99	Lambda ZAP II	1294	779	1	779	137	3891	1	19	20	21
1285	HLMMA65	203979 04/29/99	Lambda ZAP II	1295	446	1	446	131	3892	1			10
1286	HLMMT12	203957 04/26/99	Lambda ZAP II	1296	445	38	412	295	3893	1	14	15	38
1287	HLMNA19	203957 04/26/99	Lambda ZAP II	1297	1006	127	1006	445	3894	1	19	20	59
1288	HLQAD72	PTA-181 06/07/99	Lambda ZAP II	1298	1369	1	1369	142	3895	1	15	16	141
1289	HLQAM30	203957 04/26/99	Lambda ZAP II	1299	676	1	676	28	3896	1	44	45	68
1290	HLQAM59	203957 04/26/99	Lambda ZAP II	1300	1061	1	1061	268	3897	1			16

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	NT of Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO:	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1291	HLQBB23	203957 04/26/99	Lambda ZAP II	1301	2046	442	2046	568	3898	1	26	27	29
1292	HLQBF05	203957 04/26/99	Lambda ZAP II	1302	577	1	577	95	3899	1	22	23	32
1293	HLQBX64	203959 04/26/99	Lambda ZAP II	1303	2108	762	1349	810	3900	1			15
1294	HLQCY09	203957 04/26/99	Lambda ZAP II	1304	1026	1	1026	120	3901	1	30	31	72
1295	HLQCZ43	203957 04/26/99	Lambda ZAP II	1305	1103	1	1103	377	3902	1	15	16	37
1296	HLQCZ80	203957 04/26/99	Lambda ZAP II	1306	1421	1	1173	327	3903	1	24	25	25
1297	HLQDK45	203957 04/26/99	Lambda ZAP II	1307	845	1	845	95	3904	1	18	19	30
1298	HLQDM47	203957 04/26/99	Lambda ZAP II	1308	1781	1	1781	115	3905	1	22	23	66
1299	HLQDU77	203957 04/26/99	Lambda ZAP II	1309	919	144	919	181	3906	1	18	19	70
1300	HL SAD72	203957 04/26/99	pSport1	1310	495	1	495	113	3907	1	25	26	30
1301	HLTCJ67	203957 04/26/99	Uni-ZAP XR	1311	1483	1	1483	246	3908	1			20

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	NT of Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1302	HLTCM28	203957 04/26/99	Uni-ZAP XR	1312	1332	1	1332	99	99	3909	1		18
1303	HLTCO22	203959 04/26/99	Uni-ZAP XR	1313	1676	597	1672	758	758	3910	1	29	42
1304	HLTDA14	203957 04/26/99	Uni-ZAP XR	1314	947	1	947	99	99	3911	1	23	50
1305	HLTDC36	203957 04/26/99	Uni-ZAP XR	1315	1744	1	1474		120	3912	1	25	37
1306	HLTDC36	203957 04/26/99	Uni-ZAP XR	1316	1744	1	1474		120	3913	1	25	37
1307	HLTD120	203957 04/26/99	Uni-ZAP XR	1317	1982	1	1982	520	520	3914	1	28	38
1308	HLTD165	203957 04/26/99	Uni-ZAP XR	1318	2689	1	2689		127	3915	1	13	34
1309	HLTDK30	203957 04/26/99	Uni-ZAP XR	1319	1573	648	1573		761	3916	1	23	140
1310	HLTDL37	203957 04/26/99	Uni-ZAP XR	1320	1986	1	1986	55	55	3917	1		11
1311	HLTDU35	203957 04/26/99	Uni-ZAP XR	1321	1993	1	1993	53	53	3918	1		33
1312	HLTDX04	203957 04/26/99	Uni-ZAP XR	1322	1469	1	1469	71	71	3919	1	43	79

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First ID of AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1313	HLTEH84	203957 04/26/99	Uni-ZAP XR	1323	1254	1	1254	88	88	3920	1	31
1314	HLTEL39	PTA-181 06/07/99	Uni-ZAP XR	1324	1827	1	1827	210	3921	1		1
1315	HLTEN11	203957 04/26/99	Uni-ZAP XR	1325	1514	1	1514	122	3922	1		23
1316	HLTEW32	203957 04/26/99	Uni-ZAP XR	1326	1535	1	1535	251	3923	1	17	35
1317	HLTEZ36	203959 04/26/99	Uni-ZAP XR	1327	3051	1	2583	218	3924	1		9
1318	HLTGG14	203957 04/26/99	Uni-ZAP XR	1328	1290	1	1290	229	3925	1	18	22
1319	HLUAF94	203957 04/26/99	Uni-Zap XR	1329	1503	1	1503	257	3926	1		3
1320	HLWAH33	PTA-181 06/07/99	pCMV Sport 3.0	1330	2289	1	2287	117	3927	1	17	37
1321	HLWAO11	PTA-793 09/27/99	pCMV Sport 3.0	1331	2929	1	2929	63	3928	1	25	43
1322	HLWAW73	203957 04/26/99	pCMV Sport 3.0	1332	1203	1	1203	676	3929	1	9	52

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1323	HLWAX50	203957 04/26/99	pCMVSPORT 3.0	1333	3186	1	3186	178	3930	1	28	29	39
1324	HLWBJ93	203957 04/26/99	pCMVSPORT 3.0	1334	1608	1	1608	46	3931	1	47	48	72
1325	HLWBJ16	203957 04/26/99	pCMVSPORT 3.0	1335	1218	1	1218	492	3932	1			11
1326	HLWCC11	203979 04/29/99	pCMVSPORT 3.0	1336	368	1	368	73	3933	1	30	31	31
1327	HLYAH81	203957 04/26/99	pSport1	1337	685	1	685	254	3934	1			6
1328	HLYAH92	203957 04/26/99	pSport1	1338	781	1	781	211	3935	1	17	18	32
1329	HLYAJ79	203957 04/26/99	pSport1	1339	829	1	829	162	3936	1	16	17	33
1330	HLYAL28	203957 04/26/99	pSport1	1340	1007	1	1007	404	3937	1	43	44	53
1331	HLYAR30	203957 04/26/99	pSport1	1341	854	1	854	562	3938	1	1	2	97
1332	HLYAT54	203957 04/26/99	pSport1	1342	1274	1	1274	195	3939	1			22
1333	HLYBC81	203957 04/26/99	pSport1	1343	1820	1	1820	89	3940	1			7

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT ³ of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1334	HL YBD09	203957 04/26/99	pSport1	1344	1984	1	1984	90	3941	1	28	29	30
1335	HL YBL67	203959 04/26/99	pSport1	1345	789	1	789	497	3942	1			29
1336	HL YBM38	203957 04/26/99	pSport1	1346	354	1	354	223	3943	1	19	20	38
1337	HL YBN23	203957 04/26/99	pSport1	1347	1487	1	1487		3944	1			6
1338	HL YBN71	203957 04/26/99	pSport1	1348	820	1	820	237	3945	1	19	20	34
1339	HL YBS25	203957 04/26/99	pSport1	1349	751	26	751	48	3946	1	18	19	34
1340	HL YBT28	203957 04/26/99	pSport1	1350	1084	1	1084	245	3947	1	32	33	33
1341	HL YBU15	203957 04/26/99	pSport1	1351	1403	1	1403	369	3948	1	18	19	71
1342	HL YBY04	203957 04/26/99	pSport1	1352	1566	1	1566	188	3949	1	15	16	20
1343	HL YCE15	203957 04/26/99	pSport1	1353	668	1	668	22	3950	1	27	28	35
1344	HL YCH04	203957 04/26/99	pSport1	1354	313	1	313	49	3951	1	16	17	33

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
1345	HLICY48	203957 04/26/99	pSport1	1355	1082	1	1082	296	3952	1	21	22	49
1346	HLIDE38	203957 04/26/99	pSport1	1356	1316	1	1316	180	3953	1	20	21	30
1347	HLIDG55	203957 04/26/99	pSport1	1357	722	1	722	220	3954	1	27	28	29
1348	HLIDG73	203957 04/26/99	pSport1	1358	858	1	858	233	3955	1			12
1349	HLIEA60	203957 04/26/99	pSport1	1359	1206	46	1196	427	3956	1	14	15	81
1350	HLIEJ14	PTA-181 06/07/99	pSport1	1360	2102	1	2102	94	3957	1	22	23	520
1351	HLIEJ44	203957 04/26/99	pSport1	1361	1289	1	1289	124	3958	1	30	31	37
1352	HLIEU51	203957 04/26/99	pSport1	1362	868	1	868	20	3959	1	21	22	35
1353	HLIEV19	203957 04/26/99	pSport1	1363	2929	2604	2928	2789	3960	1	27	28	47
1354	HMABK52	PTA-181 06/07/99	Uni-ZAP XR	1364	1141	1	1141	235	3961	1	17	18	46

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First Secreted Portion	Last of AA ORF
1355	HMACF34	PTA-181 06/07/99	Uni-ZAP XR	1365	1285	1	1285	324	324	3962	1	17	18	19
1356	HMACL77	PTA-181 06/07/99	Uni-ZAP XR	1366	1796	1	1796	251	251	3963	1			34
1357	HMACT74	203918 04/08/99	Uni-ZAP XR	1367	770	1	749		327	3964	1	24	25	67
1358	HMAJ14	203979 04/29/99	Uni-ZAP XR	1368	1444	91	1444	125	125	3965	1	25	26	257
1359	HMAJ74	203957 04/26/99	Uni-ZAP XR	1369	1892	619	1855	264	264	3966	1	38	39	291
1360	HMAEA58	PTA-791 09/27/99	Uni-ZAP XR	1370	2509	1	2509	40	40	3967	1	18	19	23
1361	HMAGH01	203957 04/26/99	Uni-ZAP XR	1371	2101	37	1769	136	136	3968	1	19	20	64
1362	HMAJS26	203918 04/08/99	Uni-ZAP XR	1372	1322	695	1322	743	743	3969	1	22	23	64
1363	HMCED78	203957 04/26/99	Uni-ZAP XR	1373	1111	134	971	471	471	3970	1			23

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
1364	HMCFN86	PTA-793 09/27/99	Uni-ZAP XR	1374	1514	1	1514	413	413	3971	1	18	19	82
1365	HMCQJ47	203957 04/26/99	Uni-ZAP XR	1375	2799	654	2780	889	889	3972	1	28	29	31
1366	HMCQK88	203957 04/26/99	Uni-ZAP XR	1376	990	1	990		317	3973	1	9	10	11
1367	HMCJH27	PTA-181 06/07/99	Uni-ZAP XR	1377	1316	1	1316		152	3974	1	16	17	49
1368	HMCQJ20	203957 04/26/99	Uni-ZAP XR	1378	1146	1	1146	356	356	3975	1	16	17	26
1369	HMCJC19	203959 04/26/99	Uni-ZAP XR	1379	545	1	545	215	215	3976	1	30	31	86
1370	HMDAB44	203957 04/26/99	Uni-ZAP XR	1380	606	1	606		432	3977	1	5	6	58
1371	HMDAE88	203957 04/26/99	Uni-ZAP XR	1381	1035	1	1035	377	377	3978	1	10	11	74
1372	HMDAG62	203957 04/26/99	Uni-ZAP XR	1382	2414	273	2414	399	399	3979	1	24	25	82
1373	HMDAK20	203957 04/26/99	Uni-ZAP XR	1383	582	1	582		149	3980	1	20	21	44

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1374	HMDAM08	203957 04/26/99	Uni-ZAP XR	1384	1426	1	1426	31	31	3981	1	17	32
1375	HMDAM39	203957 04/26/99	Uni-ZAP XR	1385	712	1	712	38	38	3982	1		28
1376	HMEAA41	203957 04/26/99	Lambda ZAP II	1386	1702	1	1702		9	3983	1	17	137
1377	HMECM77	203957 04/26/99	Lambda ZAP II	1387	1720	1	1720		141	3984	1	12	42
1378	HMEEH21	203957 04/26/99	Lambda ZAP II	1388	505	1	505	20	20	3985	1	17	38
1379	HMEET36	203957 04/26/99	Lambda ZAP II	1389	485	1	485	56	56	3986	1	26	32
1380	HMEEZ07	203957 04/26/99	Lambda ZAP II	1390	2007	1	2007	192	192	3987	1	20	42
1381	HMEFB15	203957 04/26/99	Lambda ZAP II	1391	1499	1	1499	117	117	3988	1	27	36
1382	HMEIH57	203957 04/26/99	Lambda ZAP II	1392	1626	1	1621	121	121	3989	1	22	50
1383	HMEIJ21	203957 04/26/99	Lambda ZAP II	1393	2397	1	1525		553	3990	1	13	20
1384	HMEIX79	203957 04/26/99	Lambda ZAP II	1394	641	1	641	235	235	3991	1		11

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1385	HME/C96	203957 04/26/99	Lambda ZAP II	1395	2163	401	2163	533	3992	1			15
1386	HME/D36	203957 04/26/99	Lambda ZAP II	1396	1312	1	1312	124	3993	1	29	30	36
1387	HME/JK28	203959 04/26/99	Lambda ZAP II	1397	1966	710	1933	943	3994	1	25	26	26
1388	HME/KH55	203957 04/26/99	Lambda ZAP II	1398	1726	1	1726	245	3995	1	19	20	38
1389	HME/KW44	203957 04/26/99	Lambda ZAP II	1399	2006	1	2006	26	3996	1	33	34	58
1390	HME/KW71	PTA-181 06/07/99	Lambda ZAP II	1400	1175	1	1175		3997	1	38	39	52
1391	HME/LW26	203957 04/26/99	Lambda ZAP II	1401	1402	1	1339	92	3998	1	18	19	23
1392	HME/GT32	203957 04/26/99	Uni-ZAP XR	1402	1221	1	1221	243	3999	1			21
1393	HME/HB09	203979 04/29/99	Uni-ZAP XR	1403	942	1	942	199	4000	1	29	30	44
1394	HME/HB03	203959 04/26/99	Uni-ZAP XR	1404	2103	39	2103	319	4001	1			15

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1395	HMHBP74	203957 04/26/99	Uni-ZAP XR	1405	1255	190	1255	208	4002	1	22	23	33
1396	HMIAC52	203957 04/26/99	Uni-ZAP XR	1406	1642	58	1642	251	4003	1	39	40	52
1397	HMIAD75	203918 04/08/99	Uni-ZAP XR	1407	1621	1	1621	75	4004	1	18	19	39
1398	HMIAG42	203918 04/08/99	Uni-ZAP XR	1408	1978	1	1978	273	4005	1	18	19	36
1399	HMIAG55	203957 04/26/99	Uni-ZAP XR	1409	932	1	932	113	4006	1	23	24	35
1400	HMIAG72	203959 04/26/99	Uni-ZAP XR	1410	3052	597	3052	740	4007	1	22	23	38
1401	HMIAL39	203957 04/26/99	Uni-ZAP XR	1411	1280	1	1280	212	4008	1	27	28	41
1402	HMIAO82	203957 04/26/99	Uni-ZAP XR	1412	3620	1	3620	129	4009	1			24
1403	HMIAR42	203957 04/26/99	Uni-ZAP XR	1413	1896	1	1896	236	4010	1			8
1404	HMIAV33	203957 04/26/99	Uni-ZAP XR	1414	1361	1	1361		4011	1	7	8	24
1405	HMIAZ24	203959 04/26/99	Uni-ZAP XR	1415	643	1	643		4012	1			16

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of Sig Pep	Last of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1406	HMBD93	203957 04/26/99	Uni-ZAP XR	1416	1323	734	1323		983	4013	1	27	28	65
1407	HMBE95	203957 04/26/99	Uni-ZAP XR	1417	2083	1	2083	31	31	4014	1	23	24	90
1408	HMBG57	203957 04/26/99	Uni-ZAP XR	1418	917	1	917	130	130	4015	1	23	24	33
1409	HMJAC12	203918 04/08/99	pSport1	1419	1014	1	1014		276	4016	1	13	14	40
1410	HMKAN71	PTA-792 09/27/99	pSport1	1420	1720	1	1720	316	316	4017	1	27	28	35
1411	HMKBA33	203957 04/26/99	pSport1	1421	1730	1	1730	87	87	4018	1	19	20	34
1412	HMKCI22	PTA-181 06/07/99	pSport1	1422	2018	296	2018	455	455	4019	1			15
1413	HMKCK32	203957 04/26/99	pSport1	1423	1020	1	1020	60	60	4020	1	20	21	37
1414	HMKCP81	203957 04/26/99	pSport1	1424	957	1	957	131	131	4021	1	17	18	30
1415	HMKCY49	203957 04/26/99	pSport1	1425	1034	1	1034	269	269	4022	1			2

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	5' NT of Total Clone Seq.	5' NT of 3' NT Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1416	HMKDD51	PTA-795 09/27/99	pSport1	1426	1150	1	1150	290	4023	1	22	39
1417	HMKDG69	203957 04/26/99	pSport1	1427	1761	1	1761	286	4024	1	11	12
1418	HMKDM80	203957 04/26/99	pSport1	1428	616	1	616	386	4025	1	11	35
1419	HMKEG88	203957 04/26/99	pSport1	1429	573	1	573	142	4026	1		19
1420	HMMMA09	203957 04/26/99	pSport1	1430	1384	1	1384	127	4027	1	30	34
1421	HMMMAK92	203957 04/26/99	pSport1	1431	706	1	706	120	4028	1	30	34
1422	HMMMAL32	203957 04/26/99	pSport1	1432	419	1	419	276	4029	1	36	48
1423	HMMMBD19	203957 04/26/99	pSport1	1433	1025	1	1025	290	4030	1		9
1424	HMMMBF22	203918 04/08/99	pSport1	1434	1390	1	699	42	4031	1	21	35
1425	HMMMBH91	203957 04/26/99	pSport1	1435	783	1	783	234	4032	1	18	22

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First Secreted Portion	Last of AA of ORF
1426	HMMBH94	203957 04/26/99	pSport1	1436	909	1	909	86	86	4033	1			20
1427	HMMBK55	203957 04/26/99	pSport1	1437	766	1	766	260	260	4034	1	20	21	41
1428	HMMBQ31	203957 04/26/99	pSport1	1438	712	1	712	85	85	4035	1	21	22	37
1429	HMMBR63	203957 04/26/99	pSport1	1439	680	27	680	271	271	4036	1	26	27	44
1430	HMMBS55	203957 04/26/99	pSport1	1440	1004	1	1004	103	103	4037	1	22	23	40
1431	HMMBT47	203957 04/26/99	pSport1	1441	1305	1	1305	43	43	4038	1	23	24	50
1432	HMMCD35	203957 04/26/99	pSport1	1442	813	1	813		308	4039	1	23	24	42
1433	HMMCD95	203957 04/26/99	pSport1	1443	1694	1	1694	236	236	4040	1			17
1434	HMPAB26	203957 04/26/99	pBluescript	1444	865	1	865		563	4041	1			6
1435	HMPAP48	203957 04/26/99	pBluescript	1445	337	1	337	48	48	4042	1	17	18	33
1436	HMQAL38	203957 04/26/99	Uni-ZAP XR	1446	1777	1	1777	24	24	4043	1			20

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First Secreted of ORF	Last of AA of ORF
1437	HMQAT69	203957 04/26/99	Uni-ZAP XR	1447	1940	125	1940	243	243	4044	1	25	26	138
1438	HMQBL90	203957 04/26/99	Uni-ZAP XR	1448	1469	1	1469	57	57	4045	1	17	18	58
1439	HMQBV82	203957 04/26/99	Uni-ZAP XR	1449	1013	302	1013	499	499	4046	1			5
1440	HMQCA75	203957 04/26/99	Uni-ZAP XR	1450	1265	1	1265	239	239	4047	1	21	22	29
1441	HMQCB37	203957 04/26/99	Uni-ZAP XR	1451	2122	1	2081		288	4048	1			3
1442	HMQCL80	203957 04/26/99	Uni-ZAP XR	1452	643	1	643	97	97	4049	1			12
1443	HMQCX41	203957 04/26/99	Uni-ZAP XR	1453	608	1	608	221	221	4050	1	14	15	62
1444	HMQDM09	203957 04/26/99	Uni-ZAP XR	1454	1277	1	1277		109	4051	1			4
1445	HMQDU07	203957 04/26/99	Uni-ZAP XR	1455	1982	1	1982		159	4052	1	31	32	46
1446	HMSAP33	203957 04/26/99	Uni-ZAP XR	1456	1600	157	1600	316	316	4053	1	16	17	34

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1447	HMSAZ48	PTA-791 09/27/99	Uni-ZAP XR	1457	1818	1	1818	225	4054	1	22	24
1448	HMSBN18	203979 04/29/99	Uni-ZAP XR	1458	1264	1	1264	231	4055	1	20	35
1449	HMSBS25	203957 04/26/99	Uni-ZAP XR	1459	1366	1	1366	151	4056	1	24	35
1450	HMSBU14	203918 04/08/99	Uni-ZAP XR	1460	2077	1	2077		4057	1	8	24
1451	HMSBZ10	203957 04/26/99	Uni-ZAP XR	1461	1993	1	1993		4058	1	17	28
1452	HMSCB94	203979 04/29/99	Uni-ZAP XR	1462	1932	1	1932	97	4059	1		21
1453	HMSCK12	203957 04/26/99	Uni-ZAP XR	1463	1541	1	1541		4060	1		17
1454	HMSCP63	203957 04/26/99	Uni-ZAP XR	1464	934	1	934		4061	1	7	10
1455	HMSCV75	203918 04/08/99	Uni-ZAP XR	1465	1625	1	1625	146	4062	1	19	28
1456	HMSCV85	PTA-181 06/07/99	Uni-ZAP XR	1466	2128	256	2128	336	4063	1	15	31

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1457	HMSCW44	203957 04/26/99	Uni-ZAP XR	1467	1309	1	1309		177	4064	1	29	30	37
1458	HMSCZ19	203979 04/29/99	Uni-ZAP XR	1468	1686	1	1686	157	157	4065	1	48	49	177
1459	HMSDI67	203957 04/26/99	Uni-ZAP XR	1469	2153	1	2153	851	851	4066	1	25	26	93
1460	HMSDI79	203957 04/26/99	Uni-ZAP XR	1470	1790	1	1790		347	4067	1	6	7	13
1461	HMSDR28	203957 04/26/99	Uni-ZAP XR	1471	1319	1	1319	102	102	4068	1			24
1462	HMSFT25	203957 04/26/99	Uni-ZAP XR	1472	1504	1	1504	154	154	4069	1	18	19	27
1463	HMSFW52	203957 04/26/99	Uni-ZAP XR	1473	1645	1	1645	60	60	4070	1			18
1464	HMSGT73	203957 04/26/99	Uni-ZAP XR	1474	1466	1	1466	181	181	4071	1	24	25	54
1465	HMSGU30	203979 04/29/99	Uni-ZAP XR	1475	1828	1	1828	738	738	4072	1	17	18	78
1466	HMSHB42	203957 04/26/99	Uni-ZAP XR	1476	2746	1	1171		1556	4073	1			3
1467	HMSHB42	203957 04/26/99	Uni-ZAP XR	1477	1507	1	1507	182	182	4074	1	18	19	33

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First AA of AA of Secreted Portion	Last AA of ORF
1468	HMSHN72	PTA-181 06/07/99	Uni-ZAP XR	1478	1597	1	1597	84	84	4075	1	18	37
1469	HMSHT29	203957 04/26/99	Uni-ZAP XR	1479	1294	1	1294	488	488	4076	1	28	38
1470	HMSHW73	203957 04/26/99	Uni-ZAP XR	1480	2284	1	2284	57	57	4077	1	20	22
1471	HMSIC48	203957 04/26/99	Uni-ZAP XR	1481	1395	1	1395		271	4078	1	6	12
1472	HMSII36	203957 04/26/99	Uni-ZAP XR	1482	1229	1	1229	222	222	4079	1	19	53
1473	HMSIT42	203957 04/26/99	Uni-ZAP XR	1483	1166	1	1166	164	164	4080	1	50	64
1474	HMSJB08	PTA-791 09/27/99	Uni-ZAP XR	1484	2375	1	2375	141	141	4081	1	22	38
1475	HMSJI69	203957 04/26/99	Uni-ZAP XR	1485	1330	1	1330	132	132	4082	1	15	21
1476	HMSJM20	203957 04/26/99	Uni-ZAP XR	1486	1470	1	1470	264	264	4083	1		26
1477	HMSJR44	203957 04/26/99	Uni-ZAP XR	1487	1725	1	1725	88	88	4084	1		10

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total Clone Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of Sig Pep	Last of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1478	HMSKQ91	203957 04/26/99	Uni-ZAP XR	1488	903	1	903	147	147	4085	1	33	69
1479	HMSKY45	203957 04/26/99	Uni-ZAP XR	1489	1773	1	1773	93	93	4086	1	19	30
1480	HMTAF92	203957 04/26/99	pCMVSPORT 3.0	1490	2218	1	2218		1554	4087	1	11	31
1481	HMTAT36	203957 04/26/99	pCMVSPORT 3.0	1491	1119	122	1119	198	198	4088	1	20	46
1482	HMUAB93	203957 04/26/99	pCMVSPORT 3.0	1492	1955	198	1955	200	200	4089	1	24	34
1483	HMUAD65	203957 04/26/99	pCMVSPORT 3.0	1493	1528	1	1528		209	4090	1	18	32
1484	HMUAT23	PTA-795 09/27/99	pCMVSPORT 3.0	1494	2069	1	2069	30	30	4091	1	25	33
1485	HMUBA47	203957 04/26/99	pCMVSPORT 3.0	1495	1528	787	1522	1074	1074	4092	1	22	26
1486	HMUBJ22	203957 04/26/99	pCMVSPORT 3.0	1496	1751	1	1751	201	201	4093	1	15	32
1487	HMUBK53	203957 04/26/99	pCMVSPORT 3.0	1497	752	1	752	247	247	4094	1	23	119

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
1488	HMUBN24	203957 04/26/99	pCMVSPORT 3.0	1498	629	1	629	272	272	4095	1			17
1489	HMUBO15	203957 04/26/99	pCMVSPORT 3.0	1499	809	1	809	120	120	4096	1	31	32	56
1490	HMUBX48	203979 04/29/99	pCMVSPORT 3.0	1500	1208	1	1208		256	4097	1	4	5	89
1491	HMUBY57	203918 04/08/99	pCMVSPORT 3.0	1501	2141	900	2141	1085	1085	4098	1	20	21	30
1492	HMUBZ15	203957 04/26/99	pCMVSPORT 3.0	1502	1118	1	1118		137	4099	1	6	7	40
1493	HMVAL15	203957 04/26/99	pSPORT1	1503	1769	1	1769	385	385	4100	1	17	18	36
1494	HMVBC84	203957 04/26/99	pSPORT1	1504	1149	1	1149	69	69	4101	1	18	19	40
1495	HMVBD68	203957 04/26/99	pSPORT1	1505	1281	1	1281	467	467	4102	1	18	19	22
1496	HMVCG17	203979 04/29/99	pSPORT1	1506	1149	1	1149	253	253	4103	1	21	22	65
1497	HMVCS92	203979 04/29/99	pSPORT1	1507	1869	1	1732	323	323	4104	1	23	24	34
1498	HMVCS92	203979 04/29/99	pSPORT1	1508	1867	1	1730	323	323	4105	1	22	23	47

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1499	HMVDB45	PTA-181 06/07/99	pSport1	1509	1156	1	1156	179	4106	1		2
1500	HMVDJ71	PTA-181 06/07/99	pSport1	1510	1472	1	1386	332	4107	1	33	85
1501	HMVDT89	203917 04/08/99	pSport1	1511	1991	1	1689		4108	1	2	144
1502	HMVDT89	203917 04/08/99	pSport1	1512	1994	1	1696	285	4109	1		13
1503	HMWAO65	203957 04/26/99	Uni-ZAP XR	1513	712	1	712	340	4110	1		26
1504	HMWAO82	203957 04/26/99	Uni-ZAP XR	1514	486	1	486	72	4111	1	18	40
1505	HMWBD74	203957 04/26/99	Uni-ZAP XR	1515	654	181	653	410	4112	1	14	20
1506	HMWBDK35	203957 04/26/99	Uni-ZAP XR	1516	974	1	974	194	4113	1	21	63
1507	HMWBDK86	203957 04/26/99	Uni-ZAP XR	1517	472	1	472		4114	1	6	6
1508	HMWBL38	203957 04/26/99	Uni-ZAP XR	1518	924	1	924	31	4115	1	19	33

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1509	HMWBM48	203957 04/26/99	Uni-ZAP XR	1519	807	1	807	11	4116	1	11	12	13
1510	HMWCG28	203979 04/29/99	Uni-ZAP XR	1520	893	1	893	78	4117	1	30	31	40
1511	HMWCP85	203957 04/26/99	Uni-ZAP XR	1521	2037	1	1857	116	4118	1			14
1512	HMWDG30	203957 04/26/99	Uni-ZAP XR	1522	1417	1	1417	3	4119	1	1	2	207
1513	HMWDU20	203957 04/26/99	Uni-ZAP XR	1523	1837	1	1837	92	4120	1	27	28	33
1514	HMWDX57	203957 04/26/99	Uni-ZAP XR	1524	493	1	493	127	4121	1			8
1515	HMWDZ63	203957 04/26/99	Uni-ZAP XR	1525	460	1	460	129	4122	1	15	16	36
1516	HMWEA77	203957 04/26/99	Uni-ZAP XR	1526	1369	1	1369	213	4123	1	16	17	29
1517	HMWEC03	203957 04/26/99	Uni-ZAP XR	1527	1556	1	1555	190	4124	1	18	19	28
1518	HMWEF46	203957 04/26/99	Uni-ZAP XR	1528	1259	1	1259	71	4125	1	18	19	61
1519	HMWEK43	203979 04/29/99	Uni-ZAP XR	1529	1217	1	1217	126	4126	1	16	17	31

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
1520	HMWEM23	PTA-181 06/07/99	Uni-ZAP XR	1530	1876	12	1876	152	4127	1	1	2	338
1521	HMWEM23	PTA-181 06/07/99	Uni-ZAP XR	1531	1876	12	1876	135	4128	1	16	17	17
1522	HMWER46	203959 04/26/99	Uni-ZAP XR	1532	1133	560	1133	726	4129	1	20	21	54
1523	HMWEU96	203957 04/26/99	Uni-ZAP XR	1533	1609	1	1609	224	4130	1	16	17	28
1523	HMWEU96	203957 04/26/99	Uni-ZAP XR	2606	1603	1	1603	86	5203	1	20	21	379
1524	HMWEX02	203957 04/26/99	Uni-ZAP XR	1534	1359	1	1359	48	4131	1	25	26	188
1525	HMWFB65	203957 04/26/99	Uni-ZAP XR	1535	1490	1	1490	29	4132	1			16
1526	HMWFD77	203957 04/26/99	Uni-ZAP XR	1536	522	1	522	17	4133	1	31	32	34
1527	HMWFO25	203957 04/26/99	Uni-ZAP XR	1537	930	1	930	185	4134	1	10	11	12
1528	HMWFO89	203979 04/29/99	Uni-ZAP XR	1538	580	1	580	209	4135	1	18	19	63

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1529	HMWGM41	203979 04/29/99	Uni-ZAP XR	1539	1224	1	1224	33	33	4136	1	41	42	318
1530	HMWGO95	203957 04/26/99	Uni-ZAP XR	1540	1448	1	1448	175	175	4137	1	28	29	36
1531	HMWGV85	203979 04/29/99	Uni-ZAP XR	1541	1143	1	1143	41	41	4138	1	42	43	109
1532	HMWZ42	203957 04/26/99	Uni-ZAP XR	1542	1589	1	1589	224	224	4139	1	21	22	32
1533	HMWHR36	203957 04/26/99	Uni-ZAP XR	1543	831	1	831	164	164	4140	1	27	28	73
1534	HMWIM55	203957 04/26/99	Uni-ZAP XR	1544	784	1	784	53	53	4141	1	25	26	34
1535	HMWQ26	203957 04/26/99	Uni-ZAP XR	1545	1178	1	1178	135	135	4142	1	22	23	69
1536	HMWU49	203957 04/26/99	Uni-ZAP XR	1546	1579	920	1579	989	989	4143	1	20	21	98
1537	HMWIJ62	203957 04/26/99	Uni-ZAP XR	1547	954	1	954	115	115	4144	1	19	20	38
1538	HMWIJ64	203957 04/26/99	Uni-ZAP XR	1548	1563	1	1563	187	187	4145	1	38	39	46
1539	HNAAD76	203957 04/26/99	pSport1	1549	1847	1	1847	116	116	4146	1	37	38	38

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal	NT of First AA of Signal	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1540	HNAAE24	203957 04/26/99	pSport1	1550	1391	1	1391	107	107	4147	1	18	23
1541	HNALD94	203979 04/29/99	pSport1	1551	1272	1	1249	88	88	4148	1	13	217
1542	HNALE44	203957 04/26/99	pSport1	1552	2008	1	1980	179	179	4149	1	15	35
1543	HNDAC35	203979 04/29/99	pCMV/Sport 2.0	1553	772	1	772	78	78	4150	1	31	40
1544	HNEAA04	203957 04/26/99	Uni-ZAP XR	1554	822	1	822	112	112	4151	1	26	35
1545	HNEAH26	PTA-181 06/07/99	Uni-ZAP XR	1555	1488	1	1488		206	4152	1	21	34
1546	HNEAK38	203957 04/26/99	Uni-ZAP XR	1556	1383	105	1383		247	4153	1	27	44
1547	HNEAK65	203957 04/26/99	Uni-ZAP XR	1557	748	1	748	66	66	4154	1	20	31
1548	HNEBX72	203979 04/29/99	Uni-ZAP XR	1558	1694	21	1694	47	47	4155	1	17	46
1549	HNEBY79	203979 04/29/99	Uni-ZAP XR	1559	1572	1	1567	186	186	4156	1	21	23

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID: NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
1550	HNECD52	203957 04/26/99	Uni-ZAP XR	1560	1265	1	1265	262	262	4157	1	20	46
1551	HNECL75	203957 04/26/99	Uni-ZAP XR	1561	3332	1077	3135	1120	4158	1	32	33	48
1552	HNECX90	203957 04/26/99	Uni-ZAP XR	1562	1314	1	1314	71	4159	1	17	18	37
1553	HNECX90	203957 04/26/99	Uni-ZAP XR	1563	2545	1	1293	71	4160	1	17	18	37
1554	HNEDA05	203957 04/26/99	Uni-ZAP XR	1564	1564	575	1564	649	4161	1	17	18	59
1555	HNEDP75	203957 04/26/99	Uni-ZAP XR	1565	914	1	914	211	4162	1			24
1556	HNEDQ02	203979 04/29/99	Uni-ZAP XR	1566	2235	131	2235	280	4163	1	23	24	56
1557	HNEDU46	203957 04/26/99	Uni-ZAP XR	1567	1369	1	1369	794	4164	1	44	45	52
1558	HNFAD50	203917 04/08/99	Uni-ZAP XR	1568	2910	1	2885	227	4165	1	1	2	477
1559	HNFAD50	203917 04/08/99	Uni-ZAP XR	1569	2430	1	2389	112	4166	1			8
1560	HNFAG67	203959 04/26/99	Uni-ZAP XR	1570	1525	480	1474	32	4167	1			2

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First Secreted Portion of AA of ORF		
1571	HNFFET12	203957 04/26/99	Uni-ZAP XR	1581	1268	1	1268	281	281	4178	1	17	18	51
1572	HNFFR59	203957 04/26/99	Uni-ZAP XR	1582	1637	1	1637		162	4179	1	17	18	30
1573	HNFGC51	PTA-181 06/07/99	Uni-ZAP XR	1583	2127	1	2127	217	217	4180	1			9
1574	HNFGRI15	203959 04/26/99	Uni-ZAP XR	1584	1551	1	1551	292	292	4181	1	12	13	31
1575	HNFGW37	203957 04/26/99	Uni-ZAP XR	1585	874	1	874		219	4182	1	10	11	68
1576	HNFGW53	203957 04/26/99	Uni-ZAP XR	1586	942	1	942	12	12	4183	1	46	47	75
1577	HNFFHA34	203957 04/26/99	Uni-ZAP XR	1587	1124	11	1124	246	246	4184	1	16	17	41
1578	HNFFHD58	203957 04/26/99	Uni-ZAP XR	1588	1170	1	1170	119	119	4185	1			12
1579	HNFFHV68	203957 04/26/99	Uni-ZAP XR	1589	1150	1	1150		281	4186	1			8
1580	HNFFIE15	PTA-795 09/27/99	pBluescript	1590	2612	1	2612	107	107	4187	1	26	27	99

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1581	HNFE29	PTA-181 06/07/99	pBluescript	1591	1485	1	1485		150	4188	1			19
1582	HNFIG49	203957 04/26/99	pBluescript	1592	1566	1	1566		168	4189	1			20
1583	HNFE27	203957 04/26/99	Uni-ZAP XR	1593	1638	1	1638	288	288	4190	1	20	21	42
1584	HNFIG16	203957 04/26/99	Uni-ZAP XR	1594	935	1	935	110	110	4191	1	17	18	32
1585	HNGAC71	203957 04/26/99	Uni-ZAP XR	1595	628	1	628		168	4192	1	15	16	19
1586	HNGAK42	203957 04/26/99	Uni-ZAP XR	1596	410	1	410	15	15	4193	1	19	20	26
1587	HNGAL25	203957 04/26/99	Uni-ZAP XR	1597	1409	1	1409	9	9	4194	1	22	23	35
1588	HNGAT83	203957 04/26/99	Uni-ZAP XR	1598	1300	1	1300	145	145	4195	1	18	19	52
1589	HNGAX06	203959 04/26/99	Uni-ZAP XR	1599	397	1	397	145	145	4196	1	18	19	38
1590	HNGBB09	203957 04/26/99	Uni-ZAP XR	1600	964	1	964	7	7	4197	1	14	15	20

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1591	HNGBC53	PTA-181 06/07/99	Uni-ZAP XR	1601	1004	1	1004	178	178	4198	1	20	21	55
1592	HNGBD94	203957 04/26/99	Uni-ZAP XR	1602	1110	1	1110	22	22	4199	1	13	14	31
1593	HNGBE44	203957 04/26/99	Uni-ZAP XR	1603	639	1	639		208	4200	1			6
1594	HNGBE63	203957 04/26/99	Uni-ZAP XR	1604	1197	1	1197	158	158	4201	1	21	22	44
1595	HNGBI83	PTA-793 09/27/99	Uni-ZAP XR	1605	421	1	421	80	80	4202	1	25	26	34
1596	HNGBJ74	203957 04/26/99	Uni-ZAP XR	1606	1112	1	1112	180	180	4203	1	24	25	74
1597	HNGBP30	203957 04/26/99	Uni-ZAP XR	1607	418	1	418	36	36	4204	1	23	24	36
1598	HNGBQ61	203957 04/26/99	Uni-ZAP XR	1608	759	1	759	164	164	4205	1	44	45	67
1599	HNGBS35	203957 04/26/99	Uni-ZAP XR	1609	1440	2	1102		135	4206	1	4	5	17
1600	HNGBW25	203957 04/26/99	Uni-ZAP XR	1610	961	1	961	15	15	4207	1	24	25	42

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1601	HNGCF29	203957 04/26/99	Uni-ZAP XR	1611	1174	1	1174	202	202	4208	1	20	21	35
1602	HNGCF64	203957 04/26/99	Uni-ZAP XR	1612	1939	1	1939	239	239	4209	1	23	24	55
1603	HNGDF54	203957 04/26/99	Uni-ZAP XR	1613	731	1	731	36	36	4210	1	23	24	92
1604	HNGDH22	203957 04/26/99	Uni-ZAP XR	1614	1374	1	1373		389	4211	1	27	28	83
1605	HNGDH27	203957 04/26/99	Uni-ZAP XR	1615	1000	1	1000	59	59	4212	1	16	17	38
1606	HNGDN07	203979 04/29/99	Uni-ZAP XR	1616	1122	1	1122	78	78	4213	1	27	28	54
1607	HNGDO65	203957 04/26/99	Uni-ZAP XR	1617	996	423	847		705	4214	1	18	19	22
1608	HNGDR39	203957 04/26/99	Uni-ZAP XR	1618	2111	1	2111	53	53	4215	1	17	18	41
1609	HNGDW78	203957 04/26/99	Uni-ZAP XR	1619	473	1	473	206	206	4216	1	19	20	35
1610	HNGEA90	PTA-181 06/07/99	Uni-ZAP XR	1620	1478	1	1478	220	220	4217	1	24	25	71

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1611	HNGEC17	203957 04/26/99	Uni-ZAP XR	1621	601	1	601	220	220	4218	1			4
1612	HNGEE06	203957 04/26/99	Uni-ZAP XR	1622	1120	1	1120	29	29	4219	1	29	30	35
1613	HNGEF70	203957 04/26/99	Uni-ZAP XR	1623	755	1	755	36	36	4220	1	21	22	31
1614	HNGEF72	PTA-792 09/27/99	Uni-ZAP XR	1624	2388	1	2388	238	238	4221	1	21	22	23
1615	HNGEI64	203957 04/26/99	Uni-ZAP XR	1625	1245	1	1245	56	56	4222	1	22	23	29
1616	HNGEJ33	203957 04/26/99	Uni-ZAP XR	1626	431	1	431	241	241	4223	1			20
1617	HNGEK64	203957 04/26/99	Uni-ZAP XR	1627	1011	1	1011	144	144	4224	1	25	26	35
1618	HNGEN32	203957 04/26/99	Uni-ZAP XR	1628	569	1	569	57	57	4225	1	21	22	38
1619	HNGER85	203957 04/26/99	Uni-ZAP XR	1629	1223	1	1223	178	178	4226	1	17	18	68
1620	HNGES90	PTA-181 06/07/99	Uni-ZAP XR	1630	1626	1	1626	53	53	4227	1	22	23	32

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1621	HNGET33	203957 04/26/99	Uni-ZAP XR	1631	1347	1	1347	225	4228	1	28	29	54
1622	HNGEX18	203957 04/26/99	Uni-ZAP XR	1632	741	1	741	389	4229	1			6
1623	HNGEY45	203957 04/26/99	Uni-ZAP XR	1633	962	1	962	231	4230	1			9
1624	HNGEZ02	203957 04/26/99	Uni-ZAP XR	1634	943	115	943	298	4231	1	17	18	25
1625	HNGEZ90	203957 04/26/99	Uni-ZAP XR	1635	1120	306	1120	466	4232	1			23
1626	HNGFA25	203957 04/26/99	Uni-ZAP XR	1636	402	1	402		4233	1	13	14	64
1627	HNGFB05	203957 04/26/99	Uni-ZAP XR	1637	214	1	214	110	4234	1			5
1628	HNGFD30	203957 04/26/99	Uni-ZAP XR	1638	570	1	570	14	4235	1	20	21	32
1629	HNGFD31	203957 04/26/99	Uni-ZAP XR	1639	1811	1	1811	185	4236	1	19	20	36
1630	HNGFD61	203957 04/26/99	Uni-ZAP XR	1640	462	1	462	194	4237	1			18
1631	HNGFG04	203957 04/26/99	Uni-ZAP XR	1641	534	1	534		4238	1	23	24	57

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1632	HNGFG74	203957 04/26/99	Uni-ZAP XR	1642	1011	1	1011	189	4239	1	21	22	43
1633	HNGFH32	203957 04/26/99	Uni-ZAP XR	1643	1665	1	1665	963	4240	1	20	21	56
1634	HNGFH83	203957 04/26/99	Uni-ZAP XR	1644	963	693	963	739	4241	1			6
1635	HNGFH21	203957 04/26/99	Uni-ZAP XR	1645	1573	1	1573	34	4242	1	6	7	49
1636	HNGFM31	203957 04/26/99	Uni-ZAP XR	1646	1361	1	1361	220	4243	1	41	42	66
1637	HNGFNT77	203918 04/08/99	Uni-ZAP XR	1647	1043	1	1043	195	4244	1	21	22	30
1638	HNGFQ18	203957 04/26/99	Uni-ZAP XR	1648	1113	1	1113	39	4245	1	39	40	67
1639	HNGFR54	203957 04/26/99	Uni-ZAP XR	1649	495	1	495	73	4246	1	36	37	52
1640	HNGFT70	203957 04/26/99	Uni-ZAP XR	1650	1099	1	1099	102	4247	1	17	18	22
1641	HNGFU70	203957 04/26/99	Uni-ZAP XR	1651	670	1	670	24	4248	1	27	28	33

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of Sig Pep	Last of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1642	HNGFV39	PTA-181 06/07/99	Uni-ZAP XR	1652	1360	1	1360	262	4249	1	8	9	9
1643	HNGGF13	203957 04/26/99	Uni-ZAP XR	1653	840	1	840	83	4250	1	23	24	159
1644	HNGGK63	203957 04/26/99	Uni-ZAP XR	1654	1590	2	1590	225	4251	1			23
1645	HNGGK65	203979 04/29/99	Uni-ZAP XR	1655	177	1	177	38	4252	1	25	26	38
1646	HNGGL11	203957 04/26/99	Uni-ZAP XR	1656	1014	197	790	392	4253	1	27	28	53
1647	HNGGO05	203918 04/08/99	Uni-ZAP XR	1657	1270	1	1270	43	4254	1	18	19	21
1648	HNGGS92	PTA-181 06/07/99	Uni-ZAP XR	1658	1100	1	1100	107	4255	1	19	20	37
1649	HNGGT10	PTA-181 06/07/99	Uni-ZAP XR	1659	1473	1	1473	1	4256	1	1	2	160
1650	HNGGT74	203957 04/26/99	Uni-ZAP XR	1660	1291	1	1291	153	4257	1			14
1651	HNGHB89	203957 04/26/99	Uni-ZAP XR	1661	582	1	582	160	4258	1			1

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1652	HNGHD07	203957 04/26/99	Uni-ZAP XR	1662	1219	1	1219	248	248	4259	1	29	36
1653	HNGHK37	203957 04/26/99	Uni-ZAP XR	1663	1543	1	1543	234	234	4260	1		12
1654	HNGHM47	203957 04/26/99	Uni-ZAP XR	1664	817	1	817	18	18	4261	1	28	41
1655	HNGHT01	203957 04/26/99	Uni-ZAP XR	1665	829	1	829	54	54	4262	1	19	31
1656	HNGHT86	PTA-795 09/27/99	Uni-ZAP XR	1666	783	1	783	221	221	4263	1	20	187
1657	HNGIH40	203957 04/26/99	Uni-ZAP XR	1667	578	1	578	100	100	4264	1	45	85
1658	HNGIK07	203957 04/26/99	Uni-ZAP XR	1668	1142	1	1142	227	227	4265	1		19
1659	HNGIM40	203957 04/26/99	Uni-ZAP XR	1669	2478	1	2478	49	49	4266	1	16	33
1660	HNGIM83	203957 04/26/99	Uni-ZAP XR	1670	1092	1	1092	69	69	4267	1	30	91
1661	HNGIO93	PTA-795 09/27/99	Uni-ZAP XR	1671	846	142	846	151	151	4268	1	25	148

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
1662	HNGIS27	203957 04/26/99	Uni-ZAP XR	1672	630	1	630	213	213	4269	1	34	53
1663	HNGIU16	203957 04/26/99	Uni-ZAP XR	1673	2521	1	2521	14	14	4270	1	25	28
1664	HNGIX91	203957 04/26/99	Uni-ZAP XR	1674	1475	1	1475	155	155	4271	1	26	31
1665	HNGIA68	203957 04/26/99	Uni-ZAP XR	1675	1784	1	1784	23	23	4272	1	17	30
1666	HNGJB57	203918 04/08/99	Uni-ZAP XR	1676	1743	1	1743	101	101	4273	1	22	32
1667	HNGJE86	203918 04/08/99	Uni-ZAP XR	1677	1201	1	1201	229	229	4274	1	19	36
1668	HNGJH26	203918 04/08/99	Uni-ZAP XR	1678	1815	1	1815	129	129	4275	1	33	34
1669	HNGJIJ61	203918 04/08/99	Uni-ZAP XR	1679	925	1	925	116	116	4276	1	19	30
1670	HNGJL07	203918 04/08/99	Uni-ZAP XR	1680	921	1	921	147	147	4277	1	30	62
1671	HNGIS66	203918 04/08/99	Uni-ZAP XR	1681	979	1	979		49	4278	1	13	37
1672	HNGJU60	203918 04/08/99	Uni-ZAP XR	1682	548	1	548	251	251	4279	1	26	55

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1673	HNGKB09	203959 04/26/99	Uni-ZAP XR	1683	975	1	975	313	4280	1	24	25	27
1674	HNGKW35	PTA-795 09/27/99	Uni-ZAP XR	1684	481	1	481	86	4281	1	25	26	132
1675	HNGKY94	203959 04/26/99	Uni-ZAP XR	1685	825	1	825		4282	1	15	16	51
1676	HNGLD28	203959 04/26/99	Uni-ZAP XR	1686	455	1	455	403	4283	1			17
1677	HNGOY36	203959 04/26/99	Uni-ZAP XR	1687	811	1	811	299	4284	1	18	19	54
1678	HNHAB38	203918 04/08/99	Uni-ZAP XR	1688	636	1	636	69	4285	1	21	22	34
1679	HNHAC43	203918 04/08/99	Uni-ZAP XR	1689	1132	1	1132	72	4286	1	29	30	34
1680	HNHAD34	203918 04/08/99	Uni-ZAP XR	1690	1062	1	1062	54	4287	1			27
1681	HNHAG83	203918 04/08/99	Uni-ZAP XR	1691	675	1	675	157	4288	1	24	25	41
1682	HNHAH06	203918 04/08/99	Uni-ZAP XR	1692	835	1	835	344	4289	1			1

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of NO: Y	First AA of AA of Secreted	Last AA of AA of Secreted	First AA of AA of Secreted	Last AA of AA of Secreted
1683	HNHAJ65	203918 04/08/99	Uni-ZAP XR	1693	598	1	598	151	4290	1			7
1684	HNHAL61	203959 04/26/99	Uni-ZAP XR	1694	1445	1	1445	162	4291	1	20	21	37
1685	HNHAP58	203918 04/08/99	Uni-ZAP XR	1695	888	1	888		4292	1	4	5	5
1686	HNHAW34	203959 04/26/99	Uni-ZAP XR	1696	642	1	642	214	4293	1			12
1687	HNHAW35	203959 04/26/99	Uni-ZAP XR	1697	826	1	826	144	4294	1	18	19	30
1688	HNHAY26	203918 04/08/99	Uni-ZAP XR	1698	2099	1	2099		4295	1	23	24	36
1689	HNHAY86	PTA-181 06/07/99	Uni-ZAP XR	1699	953	1	953	99	4296	1			4
1690	HNHAZ20	203918 04/08/99	Uni-ZAP XR	1700	1559	1	1559	243	4297	1	16	17	37
1691	HNHBE21	203959 04/26/99	Uni-ZAP XR	1701	608	1	608		4298	1	6	7	44
1692	HNHBE38	203918 04/08/99	Uni-ZAP XR	1702	1157	1	1157		4299	1	27	28	152

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID of Y	First of Sig Pep	Last of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1693	HNHBG18	203959 04/26/99	Uni-ZAP XR	1703	742	1	742		657	4300	1			2
1694	HNHB165	203918 04/08/99	Uni-ZAP XR	1704	303	1	303	161	161	4301	1	19	20	47
1695	HNHB16	203918 04/08/99	Uni-ZAP XR	1705	1162	1	1162	374	374	4302	1	23	24	75
1696	HNHCH78	203959 04/26/99	Uni-ZAP XR	1706	759	1	759		293	4303	1	8	9	22
1697	HNHCP14	203918 04/08/99	Uni-ZAP XR	1707	933	1	933		55	4304	1	31	32	50
1698	HNHCQ44	203959 04/26/99	Uni-ZAP XR	1708	655	1	655	183	183	4305	1	27	28	30
1699	HNHCT22	203959 04/26/99	Uni-ZAP XR	1709	366	1	366	226	226	4306	1			12
1700	HNHCT47	203959 04/26/99	Uni-ZAP XR	1710	621	12	621	73	73	4307	1	20	21	39
1701	HNHCV48	203959 04/26/99	Uni-ZAP XR	1711	1611	1	1611	115	115	4308	1	26	27	38
1702	HNHCZ54	203918 04/08/99	Uni-ZAP XR	1712	1267	1	1267	32	32	4309	1	24	25	31
1703	HNHDC52	203959 04/26/99	Uni-ZAP XR	1713	1341	1	1341	207	207	4310	1	29	30	30

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First ID of AA of Signal	First AA of AA of Secreted	Last AA of AA of Secreted	Last AA of AA of ORF
1704	HNHDD95	203959 04/26/99	Uni-ZAP XR	1714	372	1	372	140	140	4311	1	14
1705	HNHDE58	203918 04/08/99	Uni-ZAP XR	1715	745	1	745	272	272	4312	1	104
1706	HNHDI17	203959 04/26/99	Uni-ZAP XR	1716	1203	1	1203		1175	4313	1	9
1707	HNHDL37	203918 04/08/99	Uni-ZAP XR	1717	722	1	722	94	94	4314	1	30
1708	HNHDM21	203918 04/08/99	Uni-ZAP XR	1718	252	1	252	19	19	4315	1	59
1709	HNHDR57	203918 04/08/99	Uni-ZAP XR	1719	1195	1	1195	117	117	4316	1	32
1710	HNHDR96	203918 04/08/99	Uni-ZAP XR	1720	1347	1	1347	291	291	4317	1	34
1711	HNHDU62	203918 04/08/99	Uni-ZAP XR	1721	794	1	794	311	311	4318	1	15
1712	HNHDW34	203918 04/08/99	Uni-ZAP XR	1722	1184	1	1184	332	332	4319	1	33
1713	HNHDX28	203918 04/08/99	Uni-ZAP XR	1723	450	1	450	170	170	4320	1	50
1714	HNHDZ06	203918 04/08/99	Uni-ZAP XR	1724	1375	1	1375	282	282	4321	1	22

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	5' NT of Total Clone Seq.	5' NT of 3' NT Clone Seq.	5' NT of First AA of Start Codon	5' NT of First ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1715	HNHDZ42	203918 04/08/99	Uni-ZAP XR	1725	328	1	328	282	4322	1		1
1716	HNHEF37	203918 04/08/99	Uni-ZAP XR	1726	649	1	649	180	4323	1	10	16
1717	HNHEF49	203918 04/08/99	Uni-ZAP XR	1727	1521	1	1521	70	4324	1		20
1718	HNHEF70	203918 04/08/99	Uni-ZAP XR	1728	653	1	653	7	4325	1	17	34
1719	HNHEG30	203918 04/08/99	Uni-ZAP XR	1729	687	1	687	219	4326	1	27	50
1720	HNHEH38	203918 04/08/99	Uni-ZAP XR	1730	548	1	548	267	4327	1	32	34
1721	HNHEL22	203918 04/08/99	Uni-ZAP XR	1731	872	1	872	88	4328	1	17	39
1722	HNHEN70	PTA-181 06/07/99	Uni-ZAP XR	1732	1782	1	1782	67	4329	1	34	181
1723	HNHEP21	203918 04/08/99	Uni-ZAP XR	1733	702	1	702	175	4330	1	19	31
1724	HNHEP41	203918 04/08/99	Uni-ZAP XR	1734	917	1	917	184	4331	1	20	30

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First AA of NO: Y	AA SEQ ID of AA of Signal	First AA of AA of Secreted Pep	Last AA of AA of Secreted Portion	Last AA of AA of ORF
1725	HNHES33	203979 04/29/99	Uni-ZAP XR	1735	1260	1	1260	61	4332	1	20	21	39
1726	HNHET16	203918 04/08/99	Uni-ZAP XR	1736	859	1	859	208	4333	1	19	20	26
1727	HNHEY29	203918 04/08/99	Uni-ZAP XR	1737	1516	1	1516	131	4334	1	23	24	78
1728	HNHEZ76	203918 04/08/99	Uni-ZAP XR	1738	508	1	508	52	4335	1			6
1729	HNHFF60	203918 04/08/99	Uni-ZAP XR	1739	311	1	311	28	4336	1	15	16	39
1730	HNHFF81	203918 04/08/99	Uni-ZAP XR	1740	1338	1	1338		4337	1	23	24	32
1731	HNHFF49	203959 04/26/99	Uni-ZAP XR	1741	1736	1	1736	26	4338	1	26	27	28
1732	HNHFR42	203918 04/08/99	Uni-ZAP XR	1742	522	1	522	22	4339	1	21	22	33
1733	HNHFX25	203918 04/08/99	Uni-ZAP XR	1743	591	1	591	244	4340	1	22	23	38
1734	HNHGD95	203918 04/08/99	Uni-ZAP XR	1744	610	1	610	69	4341	1	20	21	39
1735	HNHGR82	203918 04/08/99	Uni-ZAP XR	1745	695	1	695	287	4342	1	29	30	62

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1736	HNHGS62	203918 04/08/99	Uni-ZAP XR	1746	568	1	568	195	4343	1	16	17	33
1737	HNHGY77	203918 04/08/99	Uni-ZAP XR	1747	468	1	468	298	4344	1	25	26	29
1738	HNHHA47	203918 04/08/99	Uni-ZAP XR	1748	1138	1	1138	27	4345	1			9
1739	HNHNN22	PTA-181 06/07/99	Uni-ZAP XR	1749	898	1	898	104	4346	1	24	25	37
1740	HNHHW53	203918 04/08/99	Uni-ZAP XR	1750	764	1	764	142	4347	1	11	12	13
1741	HNHIB40	203918 04/08/99	Uni-ZAP XR	1751	417	1	417		4348	1			17
1742	HNHKT74	203959 04/26/99	Uni-ZAP XR	1752	817	1	817	127	4349	1			10
1743	HNHKV56	203959 04/26/99	Uni-ZAP XR	1753	1653	1	1653	294	4350	1	31	32	66
1744	HNHLD80	203959 04/26/99	Uni-ZAP XR	1754	713	1	713	164	4351	1	21	22	62
1745	HNHLS76	PTA-181 06/07/99	Uni-ZAP XR	1755	318	1	318	138	4352	1	23	24	39

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1746	HNHILZ47	203959 04/26/99	Uni-ZAP XR	1756	1860	1	1860	177	177	4353	1	17	34
1747	HNHMP15	203959 04/26/99	Uni-ZAP XR	1757	1120	1	1120	51	51	4354	1	21	63
1748	HNHMP62	203959 04/26/99	Uni-ZAP XR	1758	1068	1	1068	220	220	4355	1	21	36
1749	HNHMY76	203959 04/26/99	Uni-ZAP XR	1759	1272	1	1272	25	25	4356	1	26	55
1750	HNHMY201	203959 04/26/99	Uni-ZAP XR	1760	536	1	536	250	250	4357	1	19	33
1751	HNHND14	203959 04/26/99	Uni-ZAP XR	1761	393	1	393	255	255	4358	1	17	46
1752	HNHND94	203959 04/26/99	Uni-ZAP XR	1762	688	1	688	17	17	4359	1		31
1753	HNHOF09	203959 04/26/99	Uni-ZAP XR	1763	1430	1	1430	539	539	4360	1	21	66
1754	HNKAA76	203959 04/26/99	pSport1	1764	1803	1	1803	384	384	4361	1	23	47
1755	HNTAF42	203918 04/08/99	pCMVSPORT 3.0	1765	1149	1	1149	82	82	4362	1	21	49

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1756	HNTCG32	PTA-795 09/27/99	pCMVSPORT 3.0	1766	2753	1	2753	178	178	4363	1	44	358
1757	HNTNY89	PTA-793 09/27/99	pSport1	1767	1247	1	1247	158	158	4364	1	30	37
1758	HNTRB25	203918 04/08/99	pSport1	1768	1154	1	1154	162	162	4365	1	41	97
1759	HNTRQ40	203959 04/26/99	pSport1	1769	4024	1	4024	132	132	4366	1	16	91
1760	HNTSQ23	203959 04/26/99	pSport1	1770	2287	231	2287	1255	1255	4367	1	28	38
1761	HOAAH51	PTA-181 06/07/99	Uni-ZAP XR	1771	755	1	755	187	187	4368	1	31	58
1762	HOAAI76	203959 04/26/99	Uni-ZAP XR	1772	522	1	515	121	121	4369	1		16
1763	HOAAJ09	203918 04/08/99	Uni-ZAP XR	1773	787	1	787	60	60	4370	1	24	37
1764	HOAAL10	203918 04/08/99	Uni-ZAP XR	1774	1241	1	1241	20	20	4371	1	20	80
1765	HOAAU13	203918 04/08/99	Uni-ZAP XR	1775	1093	1	1093	182	182	4372	1		26

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1766	HOABC12	203959 04/26/99	Uni-ZAP XR	1776	553	1	553	186	186	4373	1	28	29	29
1767	HOABH36	203959 04/26/99	Uni-ZAP XR	1777	1503	1	1503	181	181	4374	1	28	29	71
1768	HOBNA89	203959 04/26/99	Uni-ZAP XR	1778	605	1	605	15	15	4375	1	12	13	37
1769	HOBNF51	203918 04/08/99	Uni-ZAP XR	1779	1156	1	1156		223	4376	1	43	44	67
1770	HODAH24	203918 04/08/99	Uni-ZAP XR	1780	1357	1	1357	39	39	4377	1	27	28	30
1771	HODAH46	PTA-181 06/07/99	Uni-ZAP XR	1781	739	1	739	201	201	4378	1	24	25	124
1772	HODAV25	203959 04/26/99	Uni-ZAP XR	1782	991	387	991		19	4379	1			6
1773	HODAW64	203959 04/26/99	Uni-ZAP XR	1783	3287	1	828		3184	4380	1	8	9	33
1774	HODAY17	203959 04/26/99	Uni-ZAP XR	1784	2621	1919	2559	2128	2128	4381	1			15
1775	HODBA45	203918 04/08/99	Uni-ZAP XR	1785	745	1	745	179	179	4382	1	16	17	42

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of Sig Pep	Last of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1776	HODBC79	203918 04/08/99	Uni-ZAP XR	1786	931	1	931	179	4383	1	23	24	34
1777	HODBD79	203918 04/08/99	Uni-ZAP XR	1787	635	1	635	91	4384	1	19	20	92
1778	HODBF12	203918 04/08/99	Uni-ZAP XR	1788	1187	1	1187	68	4385	1			3
1779	HODBF86	203918 04/08/99	Uni-ZAP XR	1789	921	1	921	228	4386	1			13
1780	HODBF91	203959 04/26/99	Uni-ZAP XR	1790	960	172	960		4387	1	12	13	33
1781	HODBW34	PTA-791 09/27/99	Uni-ZAP XR	1791	869	1	869	241	4388	1			14
1782	HODBX93	PTA-795 09/27/99	Uni-ZAP XR	1792	799	1	799	169	4389	1			5
1783	HODBZ06	203959 04/26/99	Uni-ZAP XR	1793	1804	1	1804	159	4390	1			11
1784	HODCA73	203979 04/29/99	Uni-ZAP XR	1794	831	1	831		4391	1			10
1785	HODCV86	203959 04/26/99	Uni-ZAP XR	1795	407	1	407	250	4392	1	32	33	36

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1786	HODCY44	203959 04/26/99	Uni-ZAP XR	1796	1255	1	1255	111	4393	1	19	20	47
1787	HODDB58	203918 04/08/99	Uni-ZAP XR	1797	1768	1	1768	86	4394	1			33
1788	HODDG72	203918 04/08/99	Uni-ZAP XR	1798	826	1	826	186	4395	1	30	31	57
1789	HODDI25	203959 04/26/99	Uni-ZAP XR	1799	2243	1441	2038	1540	4396	1			17
1790	HODDN21	203959 04/26/99	Uni-ZAP XR	1800	968	8	968		4397	1	25	26	39
1791	HODDO31	203918 04/08/99	Uni-ZAP XR	1801	1532	1	1532	122	4398	1	25	26	35
1792	HODDQ06	203959 04/26/99	Uni-ZAP XR	1802	1874	583	1598		4399	1	19	20	28
1793	HODEA20	203959 04/26/99	Uni-ZAP XR	1803	1471	1	1452	373	4400	1	18	19	19
1794	HODEM38	203959 04/26/99	Uni-ZAP XR	1804	1117	1	1117	527	4401	1	22	23	72
1795	HODET37	203959 04/26/99	Uni-ZAP XR	1805	1121	1	1121		4402	1	21	22	26
1796	HOEBI04	203917 04/08/99	Uni-ZAP XR	1806	2322	439	2241		4403	1	15	16	24

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First Secreted Portion of ORF	Last AA of ORF	
1797	HOEBJ70	203959 04/26/99	Uni-ZAP XR	1807	1330	1	1330	197	197	4404	1	26	27	44
1798	HOECB33	203959 04/26/99	Uni-ZAP XR	1808	1100	1	1100	302	302	4405	1			23
1799	HOECX21	203979 04/29/99	Uni-ZAP XR	1809	1963	56	1892	75	75	4406	1	33	34	37
1800	HOEDE27	203918 04/08/99	Uni-ZAP XR	1810	960	1	960	403	403	4407	1	18	19	33
1801	HOEEK81	203918 04/08/99	Uni-ZAP XR	1811	1691	450	1690	501	501	4408	1	19	20	30
1802	HOEEZ62	203959 04/26/99	Uni-ZAP XR	1812	385	1	385	258	258	4409	1	14	15	17
1803	HOEFJ26	203979 04/29/99	Uni-ZAP XR	1813	1634	1	1634	695	4410	1				6
1804	HOEFL74	203918 04/08/99	Uni-ZAP XR	1814	889	1	889	142	4411	1	20	21		66
1805	HOEFM63	203979 04/29/99	pCMV Sport 2.0	1815	1578	1	1578	86	4412	1	68	69		180
1806	HOEFM65	203918 04/08/99	pCMV Sport 2.0	1816	2082	1	2082	341	4413	1	13	14		41
1807	HOEFMK02	203918 04/08/99	pCMV Sport 2.0	1817	1671	1	1671	129	4414	1				34

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total of NT Seq.	5' NT 3' of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
1808	HOFMO16	203918 04/08/99	pCMVSPORT 2.0	1818	1142	1	1142	149	4415	1	40	41	152
1809	HOFMP62	PTA-181 06/07/99	pCMVSPORT 2.0	1819	900	1	900	103	4416	1	17	18	67
1810	HOFMT59	203918 04/08/99	pCMVSPORT 2.0	1820	1326	1	1326	159	4417	1	22	23	46
1811	HOFMV22	203918 04/08/99	pCMVSPORT 2.0	1821	621	1	621	170	4418	1	15	16	29
1812	HOFND06	203918 04/08/99	pCMVSPORT 2.0	1822	2144	1	2144	272	4419	1	15	16	51
1813	HOFNY15	203918 04/08/99	pCMVSPORT 2.0	1823	1187	1	1187	30	4420	1	8	9	114
1814	HOFNY28	203918 04/08/99	pCMVSPORT 2.0	1824	1233	1	1233	365	4421	1	26	27	37
1815	HOFNC41	203918 04/08/99	pCMVSPORT 2.0	1825	1197	1	1197	152	4422	1	27	28	37
1816	HOGAA41	203918 04/08/99	pCMVSPORT 2.0	1826	5077	1	5077	640	4423	1	18	19	206
1817	HOGAB51	203918 04/08/99	pCMVSPORT 2.0	1827	1634	1	1634	242	4424	1	24	25	35

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1818	HOGAH40	203959 04/26/99	pCMVSport 2.0	1828	1648	1058	1648	1339	1339	4425	1	14	15	25
1819	HOGAP06	203918 04/08/99	pCMVSport 2.0	1829	1726	1	1726	225	225	4426	1	23	24	37
1820	HOGAR36	203959 04/26/99	pCMVSport 2.0	1830	1175	1	1175	205	205	4427	1	20	21	26
1821	HOGAR71	203959 04/26/99	pCMVSport 2.0	1831	1014	1	1014	87	87	4428	1	24	25	211
1822	HOGCC26	203959 04/26/99	pCMVSport 2.0	1832	1827	566	1816	713	713	4429	1			19
1823	HOGCD78	203918 04/08/99	pCMVSport 2.0	1833	734	1	734	151	151	4430	1	28	29	63
1824	HOGCK03	203979 04/29/99	pCMVSport 2.0	1834	1392	1	1392		386	4431	1	8	9	27
1825	HOGCL01	203959 04/26/99	pCMVSport 2.0	1835	959	1	930	167	167	4432	1	20	21	216
1826	HOHBB36	203979 04/29/99	pCMVSport 2.0	1836	2263	1	2263	283	283	4433	1			14
1827	HOHBC57	203959 04/26/99	pCMVSport 2.0	1837	5083	699	5083	891	891	4434	1	28	29	51

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of NO: Y	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1828	HOHBO66	PTA-181 06/07/99	pCMVSPORT 2.0	1838	1790	1	1790	338	338	4435	1		21
1829	HOHBZ10	203959 04/26/99	pCMVSPORT 2.0	1839	829	1	829	150	150	4436	1	21	52
1830	HOHCH71	203959 04/26/99	pCMVSPORT 2.0	1840	2574	166	2574	333	333	4437	1	24	38
1831	HOHEB48	203959 04/26/99	pCMVSPORT 2.0	1841	1579	1	1579	126	126	4438	1	22	23
1832	HONAH67	203918 04/08/99	pBluescript SK-	1842	2202	1	2202	18	18	4439	1	20	33
1833	HOAC84	203918 04/08/99	pBluescript	1843	1556	1	1556	84	84	4440	1	27	31
1834	HOPBP13	203918 04/08/99	Uni-ZAP XR	1844	2185	1	2185		295	4441	1	7	43
1835	HOQB21	203959 04/26/99	Uni-ZAP XR	1845	1649	35	1643	189	189	4442	1	30	76
1836	HORBI80	PTA-791 09/27/99	Uni-ZAP XR	1846	2665	1	2665	58	58	4443	1	22	44
1837	HORBL77	PTA-181 06/07/99	Uni-ZAP XR	1847	1258	12	1233		25	4444	1	4	64

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1838	HOSBX14	203918 04/08/99	Uni-ZAP XR	1848	1027	1	1027	173	173	4445	1	25	26	59
1839	HOSCZ41	203959 04/26/99	Uni-ZAP XR	1849	1248	127	1246	188	188	4446	1	18	19	50
1840	HOSEM81	203959 04/26/99	Uni-ZAP XR	1850	1019	1	1019		227	4447	1	9	10	66
1841	HOSEO83	203979 04/29/99	Uni-ZAP XR	1851	1309	1	1309	50	50	4448	1	45	46	67
1842	HOSFR35	203918 04/08/99	Uni-ZAP XR	1852	2255	1	2255	81	81	4449	1	50	51	85
1843	HOUAZ32	203918 04/08/99	Uni-ZAP XR	1853	1659	1	1659	214	214	4450	1			15
1844	HOUBC29	PTA-791 09/27/99	Uni-ZAP XR	1854	2845	1	2845		134	4451	1			8
1845	HOUBG39	203918 04/08/99	Uni-ZAP XR	1855	1647	1	1647	62	62	4452	1	22	23	26
1846	HOUCD12	203918 04/08/99	Uni-ZAP XR	1856	640	1	640		514	4453	1	12	13	42
1847	HOUDB17	203959 04/26/99	Uni-ZAP XR	1857	706	1	706		158	4454	1	10	11	23

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1848	HOUDX40	203959 04/26/99	Uni-ZAP XR	1858	1264	1	1152	360	4455	1			12
1849	HOUEF84	PTA-181 06/07/99	Uni-ZAP XR	1859	2249	1	2249	83	4456	1	24	25	32
1850	HOUEI43	203959 04/26/99	Uni-ZAP XR	1860	1450	1	1450	157	4457	1			14
1851	HOUGS36	PTA-181 06/07/99	Uni-ZAP XR	1861	1645	1	1645	295	4458	1	15	16	70
1852	HOHQ36	203959 04/26/99	Uni-ZAP XR	1862	979	1	979	376	4459	1	37	38	53
1853	HOUG68	203959 04/26/99	Uni-ZAP XR	1863	2952	1423	2569	1509	4460	1	13	14	18
1854	HOUG92	203959 04/26/99	Uni-ZAP XR	1864	1117	1	1117	343	4461	1	12	13	61
1855	HOVAD93	203918 04/08/99	pSport1	1865	860	1	860	114	4462	1	19	20	28
1856	HOVAE10	203918 04/08/99	pSport1	1866	1086	1	1082	228	4463	1	20	21	26
1857	HOVAE36	203918 04/08/99	pSport1	1867	969	1	969	49	4464	1			12

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1858	HOVAE82	203918 04/08/99	pSport1	1868	1206	1	1206	154	4465	1	17	18	37
1859	HOVAJ68	203918 04/08/99	pSport1	1869	1623	1	1623	129	4466	1	19	20	28
1860	HOVAW46	PTA-794 09/27/99	pSport1	1870	1370	1	1370	220	4467	1			16
1861	HOVBB19	203918 04/08/99	pSport1	1871	751	1	751	379	4468	1	29	30	32
1862	HOVBD31	203918 04/08/99	pSport1	1872	2329	1	2258	149	4469	1			29
1863	HOVBE81	PTA-181 06/07/99	pSport1	1873	953	1	953	172	4470	1	20	21	32
1864	HOVB16	203918 04/08/99	pSport1	1874	932	1	932	269	4471	1	17	18	91
1865	HOVBS68	203918 04/08/99	pSport1	1875	1812	1	1812	20	4472	1	33	34	40
1866	HOVCC73	203918 04/08/99	pSport1	1876	594	1	594	126	4473	1	39	40	44
1867	HOVCF30	203918 04/08/99	pSport1	1877	909	1	909	169	4474	1			21

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1868	HOVCJ71	203959 04/26/99	pSport1	1878	1463	1	1463		147	4475	1	18	19	46
1869	HOVCN53	203918 04/08/99	pSport1	1879	809	1	809	128	128	4476	1	22	23	36
1870	HOVCO53	203918 04/08/99	pSport1	1880	1583	1	1583	65	65	4477	1	45	46	47
1871	HPASF94	203959 04/26/99	Uni-ZAP XR	1881	352	29	352		41	4478	1	15	16	37
1872	HPBCG26	203918 04/08/99	pBluescript SK-	1882	453	1	453	74	74	4479	1	21	22	31
1873	HPBCT11	203959 04/26/99	pBluescript SK-	1883	996	1	996	149	149	4480	1	27	28	38
1874	HPBDE33	PTA-181 06/07/99	pBluescript SK-	1884	2444	1215	2435	257	257	4481	1	20	21	310
1875	HPBDE33	PTA-181 06/07/99	pBluescript SK-	1885	2444	1215	2435	1308	1308	4482	1	18	19	25
1876	HPBDF31	203918 04/08/99	pBluescript SK-	1886	895	1	895	149	149	4483	1	23	24	29
1877	HPCAG17	203959 04/26/99	Uni-ZAP XR	1887	1320	1	1320		214	4484	1	22	23	31

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of Sig Pep	Last of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1878	HPCAG17	203959 04/26/99	Uni-ZAP XR	1888	1227	1	873		81	4485	1	22	23	31
1879	HPCAM02	PTA-791 09/27/99	Uni-ZAP XR	1889	1176	1	1176	265	265	4486	1	26	27	36
1880	HPDDQ17	203918 04/08/99	pBluescript SK-	1890	531	1	531	251	251	4487	1	24	25	31
1881	HPDDQ28	203918 04/08/99	pBluescript SK-	1891	1221	1	1221	166	166	4488	1	23	24	72
1882	HPDDT14	203918 04/08/99	pBluescript SK-	1892	1293	1	1264	173	173	4489	1	26	27	58
1883	HPEAA65	203918 04/08/99	Uni-ZAP XR	1893	908	1	908	25	25	4490	1	23	24	49
1884	HPEAG24	203959 04/26/99	Uni-ZAP XR	1894	546	1	546	207	207	4491	1	21	22	35
1885	HPEBA84	203959 04/26/99	Uni-ZAP XR	1895	1160	250	1160	533	533	4492	1	21	22	36
1886	HPEBF91	203918 04/08/99	Uni-ZAP XR	1896	308	1	308	189	189	4493	1	22	23	34
1887	HPEB109	203918 04/08/99	Uni-ZAP XR	1897	236	1	236	53	53	4494	1			18

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
1888	HPFCJ75	203959 04/26/99	Uni-ZAP XR	1898	2024	1	859	1	4495	1			10
1889	HPFCP75	203918 04/08/99	Uni-ZAP XR	1899	1345	1	1345	78	4496	1	26	27	31
1890	HPFDB66	203959 04/26/99	Uni-ZAP XR	1900	1376	741	1376		4497	1			9
1891	HPFDD28	203918 04/08/99	Uni-ZAP XR	1901	1485	1	1485	391	4498	1			3
1892	HPFDI47	203918 04/08/99	Uni-ZAP XR	1902	486	1	486	174	4499	1	18	19	26
1893	HPIAT35	203918 04/08/99	Uni-ZAP XR	1903	2401	1	2401	140	4500	1			6
1894	HPIAK27	PTA-181 06/07/99	Uni-ZAP XR	1904	2970	785	2966	1088	4501	1	16	17	25
1895	HPIAL55	203979 04/29/99	Uni-ZAP XR	1905	2184	1	2184		4502	1	16	17	67
1896	HPIATI8	PTA-791 09/27/99	Uni-ZAP XR	1906	3852	1	3852	74	4503	1	25	26	38
1897	HPIAZ52	203918 04/08/99	Uni-ZAP XR	1907	2604	2	2604	149	4504	1	29	30	34

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1898	HP1BA07	PTA-793 09/27/99	Uni-ZAP XR	1908	3033	1	3033	23	4505	1	37	38	61
1899	HP1BA24	203959 04/26/99	Uni-ZAP XR	1909	2003	1	2002	49	4506	1	22	23	24
1900	HP1BI40	203918 04/08/99	Uni-ZAP XR	1910	1417	1	1417	184	4507	1	35	36	87
1901	HP1BI19	203918 04/08/99	Uni-ZAP XR	1911	1146	1	1146	340	4508	1	21	22	31
1902	HP1AA82	203918 04/08/99	Uni-ZAP XR	1912	1465	1	1465	158	4509	1			12
1903	HP1AB75	203979 04/29/99	Uni-ZAP XR	1913	1817	1	1792	153	4510	1			28
1904	HP1AN76	203959 04/26/99	Uni-ZAP XR	1914	1953	70	1953	275	4511	1	17	18	18
1905	HP1AN76	203959 04/26/99	Uni-ZAP XR	1915	1956	70	1953	275	4512	1	17	18	18
1906	HP1AU94	203918 04/08/99	Uni-ZAP XR	1916	4161	1	4161	55	4513	1	22	23	23
1907	HP1AW78	203918 04/08/99	Uni-ZAP XR	1917	1211	1	1211	100	4514	1	26	27	67

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1908	HP/BS16	203918 04/08/99	Uni-ZAP XR	1918	1703	1	1703	31	31	4515	1	20	21	112
1909	HP/BU04	203918 04/08/99	Uni-ZAP XR	1919	3121	1	3121		288	4516	1	17	18	34
1910	HP/CN83	203918 04/08/99	Uni-ZAP XR	1920	1501	1	1501	195	195	4517	1	17	18	36
1911	HP/CP75	PTA-793 09/27/99	Uni-ZAP XR	1921	2203	1	2203	34	34	4518	1	22	23	34
1912	HP/ICV35	203918 04/08/99	Uni-ZAP XR	1922	2971	1	2971	527	527	4519	1	20	21	45
1913	HP/ICX13	PTA-181 06/07/99	Uni-ZAP XR	1923	5065	1643	5065	1830	1830	4520	1	15	16	65
1914	HPLAW13	203957 04/26/99	Uni-ZAP XR	1924	1592	1	1561	199	199	4521	1	28	29	37
1915	HPMA131	203918 04/08/99	Uni-ZAP XR	1925	270	1	270	142	142	4522	1	19	20	43
1916	HPMB191	203918 04/08/99	Uni-ZAP XR	1926	1045	1	1045	216	216	4523	1			11
1917	HPMBT05	203918 04/08/99	Uni-ZAP XR	1927	838	1	838	147	147	4524	1	15	16	32

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First AA of NO: Y	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1918	HPMBW95	203959 04/26/99	Uni-ZAP XR	1928	1367	418	1355	523	4525	1			3
1919	HPMCW10	203959 04/26/99	Uni-ZAP XR	1929	915	1	915	169	4526	1	19	20	25
1920	HPMCZ18	203959 04/26/99	Uni-ZAP XR	1930	2509	686	2509	772	4527	1			10
1921	HPMDA80	203959 04/26/99	Uni-ZAP XR	1931	921	1	921	166	4528	1	16	17	49
1922	HPMDD27	203959 04/26/99	Uni-ZAP XR	1932	1723	230	1720	327	4529	1	43	44	54
1923	HPMDF45	203918 04/08/99	Uni-ZAP XR	1933	2310	1	2310	58	4530	1	22	23	39
1924	HPMDP57	203918 04/08/99	Uni-ZAP XR	1934	1541	1	1541	233	4531	1	17	18	31
1925	HPMEG72	203959 04/26/99	Uni-ZAP XR	1935	2074	91	1727	172	4532	1	19	20	31
1926	HPMFM70	203918 04/08/99	Uni-ZAP XR	1936	2288	649	2288	749	4533	1	30	31	38
1927	HPMEP48	203918 04/08/99	Uni-ZAP XR	1937	1156	1	1156	166	4534	1	25	26	40
1928	HPMEFW01	203979 04/29/99	Uni-ZAP XR	1938	2488	1	2215	95	4535	1			18

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of Sig Pep	Last of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1929	HPMGM06	203918 04/08/99	Uni-ZAP XR	1939	1640	1	1640	67	67	4536	1	29	30	88
1930	HPMGW43	203959 04/26/99	Uni-ZAP XR	1940	1996	1	1831		12	4537	1			12
1931	HPMGY89	203917 04/08/99	Uni-ZAP XR	1941	2067	56	2065	110	110	4538	1	20	21	55
1932	HPMKB09	PTA-1838 05/09/00	Uni-ZAP XR	1942	2226	1229	2217	1351	1351	4539	1	16	17	80
1933	HPMSH26	203979 04/29/99	pBluescript	1943	1758	47	1697	322	322	4540	1	16	17	24
1934	HPMSH96	203918 04/08/99	pBluescript	1944	1575	1	1575	57	57	4541	1	25	26	31
1935	HPQAJ25	PTA-181 06/07/99	Lambda ZAP II	1945	549	1	549	85	85	4542	1	35	36	39
1936	HPQAJ27	203918 04/08/99	Lambda ZAP II	1946	1397	3	1397		233	4543	1	13	14	40
1937	HPQAN50	203959 04/26/99	Lambda ZAP II	1947	1285	1	1228	164	164	4544	1	20	21	44
1938	HPQAO80	203959 04/26/99	Lambda ZAP II	1948	985	10	983	284	284	4545	1			2

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1939	HPQAW27	203918 04/08/99	Lambda ZAP II	1949	961	1	911	118	118	4546	1	19	20	31
1940	HPQBC90	203918 04/08/99	Lambda ZAP II	1950	1017	1	1017	21	21	4547	1	20	21	31
1941	HPQBJ48	203959 04/26/99	Lambda ZAP II	1951	822	1	822	251	251	4548	1	19	20	36
1942	HPQBJ48	203959 04/26/99	Lambda ZAP II	1952	822	1	822	251	251	4549	1	19	20	36
1943	HPQBL67	203918 04/08/99	Lambda ZAP II	1953	1087	1	1087	234	234	4550	1			4
1944	HPQBT17	203959 04/26/99	Lambda ZAP II	1954	1220	3	1208	236	236	4551	1			12
1945	HPQCF94	203959 04/26/99	Lambda ZAP II	1955	951	8	944	212	212	4552	1	22	23	28
1946	HPQC162	203918 04/08/99	Lambda ZAP II	1956	1071	1	1071	237	237	4553	1	30	31	74
1947	HPQRS74	203959 04/26/99	Lambda ZAP II	1957	563	1	563	146	146	4554	1	34	35	36
1948	HPRAD30	203959 04/26/99	Uni-ZAP XR	1958	2930	1	2930	99	99	4555	1	48	49	73
1949	HPRCC91	203918 04/08/99	Uni-ZAP XR	1959	932	1	932		653	4556	1			9

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO:	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1950	HPRCF40	203959 04/26/99	Uni-ZAP XR	1960	2904	2001	2882	2217	2217	4557	1	28	29	34
1951	HPRCF50	203918 04/08/99	Uni-ZAP XR	1961	1959	1	1959		151	4558	1	31	32	51
1952	HPRCL58	203918 04/08/99	Uni-ZAP XR	1962	1139	1	1139	171	171	4559	1			30
1953	HPRCM72	203959 04/26/99	Uni-ZAP XR	1963	2455	26	1572		281	4560	1	24	25	108
1954	HPRC59	203918 04/08/99	Uni-ZAP XR	1964	772	1	772	142	142	4561	1			10
1955	HPRCT73	203918 04/08/99	Uni-ZAP XR	1965	1481	1	1481		135	4562	1			11
1956	HPRTH56	PTA-181 06/07/99	pBluescript	1966	1377	1	1377	25	25	4563	1			26
1957	HPTR80	PTA-792 09/27/99	pBluescript	1967	1173	1	1173		102	4564	1	21	22	187
1958	HPTRL42	203959 04/26/99	pBluescript	1968	1098	1	1098		266	4565	1	18	19	71
1959	HPTRL95	203959 04/26/99	pBluescript	1969	692	1	692	149	149	4566	1	32	33	37

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Secreted Pep	Last of AA of Secreted Pep	First of AA of Secreted Portion	Last of AA of Secreted Portion
1960	HPTRQ52	203959 04/26/99	pBluescript	1970	658	1	658	224	224	4567	1	13	14	33
1961	HPTTH35	203918 04/08/99	Uni-ZAP XR	1971	1134	1	1134	80	80	4568	1			20
1962	HPTTI65	203918 04/08/99	Uni-ZAP XR	1972	1175	1	1175	210	210	4569	1	13	14	38
1963	HPTTT62	203918 04/08/99	Uni-ZAP XR	1973	553	1	553	222	222	4570	1	26	27	63
1964	HPTVH24	203959 04/26/99	pBluescript	1974	1463	576	1453	766	766	4571	1	19	20	35
1965	HPTVH59	203959 04/26/99	pBluescript	1975	475	1	475		144	4572	1	20	21	44
1966	HPTVI04	PTA-795 09/27/99	pBluescript	1976	636	19	618		273	4573	1	20	21	65
1967	HPTVI96	203959 04/26/99	pBluescript	1977	520	1	520	271	271	4574	1			6
1968	HPVAA15	203959 04/26/99	Uni-ZAP XR	1978	1506	40	1068	74	74	4575	1	21	22	24
1969	HPVAB20	203918 04/08/99	Uni-ZAP XR	1979	906	1	906	48	48	4576	1	16	17	36

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO;	Total NT Seq;	5' NT of Clone Seq;	3' NT of Clone Seq;	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO;	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1970	HPVAB63	203918 04/08/99	Uni-ZAP XR	1980	774	1	774	311	311	4577	1			13
1971	HPVAF86	203918 04/08/99	Uni-ZAP XR	1981	1236	1	1236	91	91	4578	1	25	26	39
1972	HPWAH55	PTA-181 06/07/99	Uni-ZAP XR	1982	2071	1	2071	144	144	4579	1	22	23	39
1973	HPWAO89	203918 04/08/99	Uni-ZAP XR	1983	1467	1	1467		46	4580	1	18	19	41
1974	HPWAS27	203918 04/08/99	Uni-ZAP XR	1984	1201	1	1201		305	4581	1	14	15	34
1975	HPWAT86	203959 04/26/99	Uni-ZAP XR	1985	617	1	617	83	83	4582	1	29	30	59
1976	HPWAV82	203918 04/08/99	Uni-ZAP XR	1986	637	262	637	401	401	4583	1			12
1977	HPWBA36	203959 04/26/99	Uni-ZAP XR	1987	1610	1	1609	83	83	4584	1	23	24	24
1978	HPWTF23	203979 04/29/99	Uni-ZAP XR	1988	2008	94	1994	283	283	4585	1	29	30	130
1979	HPWTF23	203979 04/29/99	Uni-ZAP XR	1989	2008	94	1994	283	283	4586	1	29	30	130

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1980	HPWTF53	203979 04/29/99	Uni-ZAP XR	1990	2190	227	2190		484	4587	1	14	15	97
1981	HPXAB56	203918 04/08/99	pBluescript	1991	240	1	240	73	73	4588	1	16	17	30
1982	HPZAB75	203918 04/08/99	pBluescript	1992	686	1	686	42	42	4589	1	22	23	36
1983	HRAAB26	203918 04/08/99	pCMVSPORT 3.0	1993	1961	1	1961	8	8	4590	1	18	19	25
1984	HRAAC36	203918 04/08/99	pCMVSPORT 3.0	1994	2647	1	2647		274	4591	1	17	18	59
1985	HRAAF59	203979 04/29/99	pCMVSPORT 3.0	1995	1520	1	1520	103	103	4592	1	33	34	49
1986	HRAAG89	203918 04/08/99	pCMVSPORT 3.0	1996	594	1	594	54	54	4593	1	28	29	31
1987	HRAAO40	203918 04/08/99	pCMVSPORT 3.0	1997	933	1	933	95	95	4594	1	33	34	36
1988	HRAAZ12	203959 04/26/99	pCMVSPORT 3.0	1998	4561	3116	4561	3201	3201	4595	1	21	22	39
1989	HRAABA19	203918 04/08/99	pCMVSPORT 3.0	1999	1142	1	1142	175	175	4596	1			4
1990	HRAABP28	203959 04/26/99	pCMVSPORT 3.0	2000	1317	1	1317	224	224	4597	1	23	24	35

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1991	HRABU56	203918 04/08/99	pCMVSPORT 3.0	2001	420	1	420	268	268	4598	1	29	30	51
1992	HRABZ80	203918 04/08/99	pCMVSPORT 3.0	2002	1506	1	1506	207	207	4599	1	17	18	48
1993	HRACB01	203918 04/08/99	pCMVSPORT 3.0	2003	1424	1	1424	150	150	4600	1			21
1994	HRACI39	203918 04/08/99	pCMVSPORT 3.0	2004	1348	1	1348	124	124	4601	1	17	18	30
1995	HRADU15	203959 04/26/99	pCMVSPORT 3.0	2005	849	1	849	304	304	4602	1	34	35	46
1996	HRDAH04	203918 04/08/99	Uni-ZAP XR	2006	1519	1	1519		147	4603	1	16	17	24
1997	HRDBA20	203918 04/08/99	Uni-ZAP XR	2007	1292	1	1292		87	4604	1	17	18	45
1998	HRDBD32	203918 04/08/99	Uni-ZAP XR	2008	1292	1	1292		86	4605	1	17	18	45
1999	HRDBL01	203917 04/08/99	Uni-ZAP XR	2009	935	60	935	248	248	4606	1	18	19	38
2000	HRDDM85	203959 04/26/99	Uni-ZAP XR	2010	2180	1	2180	281	281	4607	1			17
2001	HRDDS22	203959 04/26/99	Uni-ZAP XR	2011	948	1	948	235	235	4608	1	18	19	44

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2002	HRDEJ86	203959 04/26/99	Uni-ZAP XR	2012	844	1	844		203	4609	1	14	15	27
2003	HRDEQ34	203959 04/26/99	Uni-ZAP XR	2013	608	1	608	67	67	4610	1	15	16	19
2004	HRDFE30	203959 04/26/99	Uni-ZAP XR	2014	1595	821	1595	1193	1193	4611	1	29	30	41
2005	HRDFT83	203959 04/26/99	Uni-ZAP XR	2015	953	8	953	51	51	4612	1	27	28	34
2006	HRGCA01	203918 04/08/99	Uni-ZAP XR	2016	1320	1	1320	75	75	4613	1	15	16	26
2007	HRGCA06	PTA-181 06/07/99	Uni-ZAP XR	2017	617	1	617	74	74	4614	1	15	16	137
2008	HRGSE38	PTA-795 09/27/99	pBluescript	2018	536	1	536	50	50	4615	1	16	17	106
2009	HRLAT43	203959 04/26/99	ZAP Express	2019	451	1	451	158	158	4616	1			21
2010	HRLME03	203918 04/08/99	ZAP Express	2020	272	1	272	162	162	4617	1	21	22	37
2011	HROAN20	203918 04/08/99	Uni-ZAP XR	2021	1346	1	1346	254	254	4618	1	11	12	25

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of Sig Pep	Last of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2012	HROAP64	203959 04/26/99	Uni-ZAP XR	2022	638	1	638	181	181	4619	1	20	21	35
2013	HROAS35	203959 04/26/99	Uni-ZAP XR	2023	923	1	923	152	152	4620	1			31
2014	HROAY16	203959 04/26/99	Uni-ZAP XR	2024	1957	1	1957	242	242	4621	1	26	27	31
2015	HROBJ10	203959 04/26/99	Uni-ZAP XR	2025	1870	1	516	108	108	4622	1	19	20	57
2016	HROBW46	203959 04/26/99	Uni-ZAP XR	2026	1157	1	1157	395	395	4623	1	28	29	44
2017	HRODGG86	203959 04/26/99	Uni-ZAP XR	2027	1084	1	1084		320	4624	1	12	13	14
2018	HRSAL26	203918 04/08/99	ZAP Express	2028	175	1	175	82	82	4625	1	18	19	31
2019	HRTAE88	203918 04/08/99	pBluescript SK-	2029	2845	1	2845	266	266	4626	1	18	19	31
2020	HRTAP63	203979 04/29/99	pBluescript SK-	2030	2576	891	2576	959	959	4627	1	28	29	42
2021	HRTAR24	203918 04/08/99	pBluescript SK-	2031	466	1	466		220	4628	1	24	25	57
2022	HSAAN03	203918 04/08/99	pBluescript SK-	2032	1136	1	1136	193	193	4629	1	32	33	66

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	5' NT of Total Clone Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First Secreted Portion	Last AA of ORF
2023	HSAA805	203959 04/26/99	pBluescript SK-	2033	1500	1	1500	115	4630	1	19	20	38
2024	HSAAW13	203918 04/08/99	pBluescript SK-	2034	2384	2	2384	246	4631	1			22
2025	HSABA15	203918 04/08/99	pBluescript SK-	2035	947	1	947	110	4632	1	29	30	43
2026	HSABG81	203959 04/26/99	pBluescript SK-	2036	2187	365	2187	466	4633	1	41	42	42
2027	HSATA50	203918 04/08/99	Uni-ZAP XR	2037	937	1	937	211	4634	1			17
2028	HSATA61	203959 04/26/99	Uni-ZAP XR	2038	419	1	419		4635	1	13	14	32
2029	HSATG66	203917 04/08/99	Uni-ZAP XR	2039	4049	1146	3480		4636	1			20
2030	HSAT191	203918 04/08/99	Uni-ZAP XR	2040	1377	1	1377		4637	1	26	27	67
2031	HSATR50	203959 04/26/99	Uni-ZAP XR	2041	862	1	667	217	4638	1	22	23	34
2032	HSATT82	203918 04/08/99	Uni-ZAP XR	2042	1075	1	1075	166	4639	1			29
2033	HSATW19	203959 04/26/99	Uni-ZAP XR	2043	695	1	695		4640	1			3

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Peptide	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2034	HSAUW67	203959 04/26/99	Uni-ZAP XR	2044	721	1	721	37	4641	1	18	19	32
2035	HSAUW202	203918 04/08/99	Uni-ZAP XR	2045	1029	6	1029	246	4642	1			3
2036	HSAUA95	203918 04/08/99	Uni-ZAP XR	2046	560	1	560	62	4643	1	21	22	38
2037	HSAUB89	203918 04/08/99	Uni-ZAP XR	2047	1288	1	1288	161	4644	1	20	21	36
2038	HSAU153	PTA-181 06/07/99	Uni-ZAP XR	2048	1492	1	1492	22	4645	1	28	29	39
2039	HSAUV74	PTA-181 06/07/99	Uni-ZAP XR	2049	899	1	899	169	4646	1			16
2040	HSAUX39	203959 04/26/99	Uni-ZAP XR	2050	2006	1	2006	98	4647	1	29	30	35
2041	HSAVA58	PTA-181 06/07/99	Uni-ZAP XR	2051	1242	1	1242	376	4648	1			7
2042	HSAVES2	203918 04/08/99	Uni-ZAP XR	2052	1467	1	1467	179	4649	1	17	18	22
2043	HSAVH32	203959 04/26/99	Uni-ZAP XR	2053	851	1	851	63	4650	1	22	23	31

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	5' NT of Total Clone Seq.	5' NT of 3' NT Clone Seq.	5' NT of 5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2044	HSVM49	203959 04/26/99	Uni-ZAP XR	2054	1266	1	1266	236	4651	1	5	6	25
2045	HSVO11	203959 04/26/99	Uni-ZAP XR	2055	1623	1	1623	208	4652	1	19	20	22
2046	HSVO17	203959 04/26/99	Uni-ZAP XR	2056	1441	365	1441	727	4653	1			38
2047	HSVQ13	203959 04/26/99	Uni-ZAP XR	2057	576	1	576	18	4654	1	19	20	32
2048	HSVR85	203960 04/26/99	Uni-ZAP XR	2058	5048	48	645	507	4655	1			3
2049	HSVY92	203959 04/26/99	Uni-ZAP XR	2059	1134	1	1134	100	4656	1			8
2050	HSVZ05	203959 04/26/99	Uni-ZAP XR	2060	1586	315	1586	653	4657	1			13
2051	HSWB58	203959 04/26/99	Uni-ZAP XR	2061	1703	1	1703	121	4658	1	18	19	49
2052	HSWH36	203918 04/08/99	Uni-ZAP XR	2062	1114	1	1114	101	4659	1	21	22	29
2053	HSWM20	203959 04/26/99	Uni-ZAP XR	2063	624	1	624	126	4660	1	18	19	28

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2054	HSAXM74	PTA-181 06/07/99	Uni-ZAP XR	2064	533	1	533		223	4661	1			6
2055	HSAXW70	PTA-791 09/27/99	Uni-ZAP XR	2065	4015	1	4015	1363	1363	4662	1	28	29	57
2056	HSAXC22	203959 04/26/99	Uni-ZAP XR	2066	550	1	550	59	59	4663	1	19	20	31
2057	HSAXI10	203918 04/08/99	Uni-ZAP XR	2067	812	1	812	104	104	4664	1	31	32	69
2058	HSAXL49	203959 04/26/99	Uni-ZAP XR	2068	898	1	898	86	86	4665	1			9
2059	HSAXL82	203918 04/08/99	Uni-ZAP XR	2069	899	1	899		164	4666	1	27	28	40
2060	HSAXN57	203959 04/26/99	Uni-ZAP XR	2070	484	1	484	90	90	4667	1			20
2061	HSAXO45	203918 04/08/99	Uni-ZAP XR	2071	1391	1	1391	260	260	4668	1	16	17	34
2062	HSAXS06	203918 04/08/99	Uni-ZAP XR	2072	1125	1	1125	158	158	4669	1	19	20	36
2063	HSAXS22	203918 04/08/99	Uni-ZAP XR	2073	366	1	362	20	20	4670	1	16	17	35

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2064	HSAYL24	203918 04/08/99	Uni-ZAP XR	2074	1066	1	1066	151	151	4671	1	20	21	62
2065	HSAYO82	203918 04/08/99	Uni-ZAP XR	2075	605	117	605	139	139	4672	1	19	20	41
2066	HSAYR62	203959 04/26/99	Uni-ZAP XR	2076	3116	1559	2971		1900	4673	1	15	16	23
2067	HSAZP90	203959 04/26/99	Uni-ZAP XR	2077	1073	1	1073	136	136	4674	1	29	30	48
2068	HSBAJ47	203959 04/26/99	pBluescript SK-	2078	2195	1	2157	173	173	4675	1	24	25	37
2069	HSDBI90	PTA-181 06/07/99	Uni-ZAP XR	2079	1057	1	1057	218	218	4676	1			14
2070	HSDDC55	203918 04/08/99	Uni-ZAP XR	2080	1626	1	1626	116	116	4677	1	16	17	32
2071	HSDEA26	203918 04/08/99	Uni-ZAP XR	2081	1692	1	1692	246	246	4678	1	15	16	43
2072	HSDEY39	203918 04/08/99	Uni-ZAP XR	2082	975	1	975	88	88	4679	1	22	23	35
2073	hsdf72	203918 04/08/99	Uni-ZAP XR	2083	1276	1	1276	192	192	4680	1	20	21	22

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2074	HSDFO08	203918 04/08/99	Uni-ZAP XR	2084	1212	1	1212	74	74	4681	1	23	31
2075	HSDFR10	PTA-181 06/07/99	Uni-ZAP XR	2085	575	1	575	167	167	4682	1	20	24
2076	HSDGB20	203918 04/08/99	Uni-ZAP XR	2086	519	1	519	217	217	4683	1	15	31
2077	HSDGH56	PTA-181 06/07/99	Uni-ZAP XR	2087	1104	1	1104	76	76	4684	1		16
2078	HSDGM01	203918 04/08/99	Uni-ZAP XR	2088	865	1	865	71	71	4685	1	17	35
2079	HSDGM42	203917 04/08/99	Uni-ZAP XR	2089	3244	1	3231	765	765	4686	1	1	625
2080	HSDGM42	203917 04/08/99	Uni-ZAP XR	2090	3229	1	3229	67	67	4687	1	21	35
2081	HSDGM42	203917 04/08/99	Uni-ZAP XR	2091	1545	14	1124		940	4688	1	6	12
2082	HSDGM42	203917 04/08/99	Uni-ZAP XR	2092	3304	1	3291	399	399	4689	1	1	767
2083	HSDGM42	203917 04/08/99	Uni-ZAP XR	2093	3303	1	3290	128	128	4690	1	21	35

Gene No.	eDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2084	HSDGM42	203917 04/08/99	Uni-ZAP XR	2094	3304	1	3291	128	128	4691	1	21	35
2085	HSDHD05	203918 04/08/99	Uni-ZAP XR	2095	815	1	815	229	229	4692	1	19	62
2086	HSDIE51	203918 04/08/99	Uni-ZAP XR	2096	1433	1	1433	185	185	4693	1	18	28
2087	HSDIK31	203979 04/29/99	Uni-ZAP XR	2097	1862	1	1862	194	194	4694	1	27	48
2088	HSDIV37	203979 04/29/99	Uni-ZAP XR	2098	1201	1	1201	147	147	4695	1	19	30
2089	HSDIC96	203918 04/08/99	Uni-ZAP XR	2099	1969	439	1969	687	687	4696	1	27	47
2090	HSDIE77	203918 04/08/99	Uni-ZAP XR	2100	1166	1	1137	114	114	4697	1	22	32
2091	HSDIF04	203959 04/26/99	Uni-ZAP XR	2101	1144	1	1144	74	74	4698	1	29	116
2092	HSDIG47	203979 04/29/99	Uni-ZAP XR	2102	1930	245	1908	714	714	4699	1	19	45
2093	HSDIHT2	203918 04/08/99	Uni-ZAP XR	2103	1753	1	1753	241	241	4700	1	14	23

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2094	HSDJL07	PTA-795 09/27/99	Uni-ZAP XR	2104	1501	1	1501	282	282	4701	1	21	22	36
2095	HSDJR49	203918 04/08/99	Uni-ZAP XR	2105	1450	1	1450	102	102	4702	1	24	25	33
2096	HSDJV24	203918 04/08/99	Uni-ZAP XR	2106	2329	759	2329		2	4703	1	1	2	496
2097	HSDJV40	203918 04/08/99	Uni-ZAP XR	2107	1593	1	1593	126	126	4704	1	42	43	63
2098	HSDKA64	203918 04/08/99	Uni-ZAP XR	2108	1583	1	1583	199	199	4705	1	44	45	55
2099	HSDKE82	203918 04/08/99	Uni-ZAP XR	2109	1434	1	1434	120	120	4706	1	35	36	96
2100	HSDKT96	203918 04/08/99	Uni-ZAP XR	2110	1710	1	1710	187	187	4707	1	24	25	25
2101	HSDZO08	203959 04/26/99	pBluescript	2111	2279	1029	2255	1142	1142	4708	1	45	46	169
2102	HSDZQ96	203918 04/08/99	pBluescript	2112	708	1	708	330	330	4709	1			13
2103	HSEBB18	PTA-792 09/27/99	pCMVSPORT 1	2113	1297	1	1297	268	268	4710	1			14

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2104	HSFAM19	203918 04/08/99	Uni-ZAP XR	2114	1434	1	1434	170	170	4711	1	21	22	48
2105	HSHAG54	203959 04/26/99	Uni-ZAP XR	2115	1501	20	1358		155	4712	1	18	19	38
2106	HSHAS72	203960 04/26/99	Uni-ZAP XR	2116	4416	1	4416	207	207	4713	1	30	31	72
2107	HSHAX04	203959 04/26/99	Uni-ZAP XR	2117	1287	494	1285		42	4714	1	6	7	57
2108	HSHT15	203918 04/08/99	Uni-ZAP XR	2118	1544	1	1528		187	4715	1	25	26	93
2109	HSCE85	PTA-181 06/07/99	Uni-ZAP XR	2119	1225	1	1225	263	263	4716	1	13	14	36
2110	HSIAC81	203959 04/26/99	Uni-ZAP XR	2120	1913	1	1913	46	46	4717	1			21
2111	HSIAF66	PTA-181 06/07/99	Uni-ZAP XR	2121	2192	1	2192	74	74	4718	1	25	26	37
2112	HSIAP01	PTA-795 09/27/99	Uni-ZAP XR	2122	1385	1	855	90	90	4719	1	21	22	26
2113	HSIDA33	203979 04/29/99	Uni-ZAP XR	2123	556	1	535		196	4720	1			4

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	5' NT 3' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2114	HSIDA39	203918 04/08/99	Uni-ZAP XR	2124	789	1	789	260	4721	1	19	20	57
2115	HSIDZ25	203918 04/08/99	Uni-ZAP XR	2125	1691	1	1691	53	4722	1	11	12	111
2116	HSIEB64	203918 04/08/99	Uni-ZAP XR	2126	2148	1	2148	182	4723	1	21	22	32
2117	HSIEM18	203918 04/08/99	Uni-ZAP XR	2127	1111	1	1111	162	4724	1			15
2118	HSIFO61	203979 04/29/99	Uni-ZAP XR	2128	2150	647	2076	95	4725	1	22	23	613
2119	HSIFO61	203979 04/29/99	Uni-ZAP XR	2129	2238	735	2164	772	4726	1	29	30	36
2120	HSIGC63	PTA-791 09/27/99	Uni-ZAP XR	2130	1750	1	1750	259	4727	1			14
2121	HSIGM95	203959 04/26/99	Uni-ZAP XR	2131	979	1	979	398	4728	1			1
2122	HSIAE76	203917 04/08/99	Uni-ZAP XR	2132	2367	127	2245	180	4729	1	17	18	30
2123	HSIAN83	203918 04/08/99	Uni-ZAP XR	2133	1092	1	1092	189	4730	1			12

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First Secreted Portion	Last AA of ORF
2124	HSJ10Q10	PTA-181 06/07/99	Uni-ZAP XR	2134	954	1	954	56	56	4731	1	31	32	44
2125	HSJ10R59	203959 04/26/99	Uni-ZAP XR	2135	541	1	541	35	35	4732	1			31
2126	HSJ10U93	203918 04/08/99	Uni-ZAP XR	2136	1142	1	1142		87	4733	1	35	36	181
2127	HSJ10Y14	203959 04/26/99	Uni-ZAP XR	2137	1452	380	1349	416	416	4734	1			4
2128	HSJ10Y14	203959 04/26/99	Uni-ZAP XR	2138	1452	380	1349	416	416	4735	1			4
2129	HSJ10Y14	203959 04/26/99	Uni-ZAP XR	2139	1452	380	1349	416	416	4736	1			4
2130	HSJ10Y14	203959 04/26/99	Uni-ZAP XR	2140	1452	380	1349	416	416	4737	1			4
2131	HSJ10B27	203918 04/08/99	Uni-ZAP XR	2141	1195	1	1195	66	66	4738	1	25	26	39
2132	HSK10U03	203959 04/26/99	Uni-ZAP XR	2142	542	1	542	79	79	4739	1			20
2133	HSK10CQ51	203959 04/26/99	Uni-ZAP XR	2143	549	1	549		235	4740	1	10	11	97

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2134	HSKDEI3	203959 04/26/99	Uni-ZAP XR	2144	1707	1	1707	132	132	4741	1		19
2135	HSKDS47	203959 04/26/99	Uni-ZAP XR	2145	1159	474	1159		740	4742	1	13	17
2136	HSKHV81	203979 04/29/99	pBluescript	2146	960	1	960	183	183	4743	1	28	36
2137	HSKXB14	203959 04/26/99	pBluescript	2147	1065	244	1058	315	315	4744	1	20	38
2138	HSKYR49	203959 04/26/99	pBluescript	2148	2631	1750	2631	2066	2066	4745	1	20	81
2139	HSKYU81	PTA-795 09/27/99	pBluescript	2149	1879	1	1879	121	121	4746	1	24	50
2140	HSKYY92	PTA-181 06/07/99	pBluescript	2150	1631	1	1631	133	133	4747	1		16
2141	HSLAB11	203918 04/08/99	Uni-ZAP XR	2151	3382	1385	3382	1409	1409	4748	1	24	46
2142	HSLAS96	203959 04/26/99	Uni-ZAP XR	2152	1408	1	1408	99	99	4749	1	16	26
2143	HSLAW59	203918 04/08/99	Uni-ZAP XR	2153	583	1	583	18	18	4750	1	20	51

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Sig Portion	Last of AA of ORF
2144	HSLCH54	203918 04/08/99	Uni-ZAP XR	2154	570	1	570	58	4751	1	24	25	61
2145	HSLCH57	PTA-795 09/27/99	Uni-ZAP XR	2155	2369	1	2369	101	4752	1	28	29	115
2146	HSLC186	203959 04/26/99	Uni-ZAP XR	2156	1936	243	1936	598	4753	1			13
2147	HSLCS31	203918 04/08/99	Uni-ZAP XR	2157	1879	1	1879	13	4754	1	25	26	345
2148	HSLCS34	203918 04/08/99	Uni-ZAP XR	2158	1089	1	1089	61	4755	1	49	50	107
2149	HSLCV16	203959 04/26/99	Uni-ZAP XR	2159	2957	746	2500	965	4756	1	37	38	42
2150	HSLDW54	PTA-181 06/07/99	Uni-ZAP XR	2160	1419	1	1419	153	4757	1	11	12	69
2151	HSLC18	203959 04/26/99	Uni-ZAP XR	2161	2043	1	2043	270	4758	1	26	27	350
2152	HSLC59	203918 04/08/99	Uni-ZAP XR	2162	1484	1	1484	87	4759	1	28	29	36
2153	HSLFR59	PTA-181 06/07/99	Uni-ZAP XR	2163	2865	1	2865	320	4760	1	19	20	58

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2154	HSLGD91	PTA-792 09/27/99	Uni-ZAP XR	2164	1272	834	1272	70	4761	1			5
2155	HSLGF66	203959 04/26/99	Uni-ZAP XR	2165	1529	1	1529	226	4762	1	9	10	10
2156	HSLGF70	203959 04/26/99	Uni-ZAP XR	2166	1314	1	1314	890	4763	1	16	17	30
2157	HSLGP68	PTA-181 06/07/99	Uni-ZAP XR	2167	2354	1	2354	166	4764	1	19	20	26
2158	HSNAB88	203918 04/08/99	Uni-ZAP XR	2168	744	1	744	262	4765	1	12	13	15
2159	HSNAH56	203918 04/08/99	Uni-ZAP XR	2169	372	1	372	171	4766	1	23	24	45
2160	HSNAN38	PTA-181 06/07/99	Uni-ZAP XR	2170	427	1	427	240	4767	1	13	14	53
2161	HSNAO19	203959 04/26/99	Uni-ZAP XR	2171	304	1	304	226	4768	1			4
2162	HSNAQ52	203918 04/08/99	Uni-ZAP XR	2172	400	1	400	218	4769	1			9
2163	HSNAT08	203918 04/08/99	Uni-ZAP XR	2173	703	1	703	25	4770	1	30	31	46

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Secreted Portion	Last AA of ORF
2164	HSNAW06	203918 04/08/99	Uni-ZAP XR	2174	675	1	675	174	4771	1	8	12
2165	HSNAW37	203918 04/08/99	Uni-ZAP XR	2175	432	1	432	237	4772	1	10	28
2166	HSNB05	203918 04/08/99	Uni-ZAP XR	2176	794	1	794	136	4773	1	13	34
2167	HSNB090	203918 04/08/99	Uni-ZAP XR	2177	425	1	425	286	4774	1		16
2168	HSNBQ36	203918 04/08/99	Uni-ZAP XR	2178	1489	781	1489	838	4775	1	27	29
2169	HSNB39	203918 04/08/99	Uni-ZAP XR	2179	323	1	323	190	4776	1		14
2170	HSOAE34	203959 04/26/99	Uni-ZAP XR	2180	674	1	674	231	4777	1		8
2171	HSOAT44	203979 04/29/99	Uni-ZAP XR	2181	650	1	650	31	4778	1	18	55
2172	HSOBB94	203959 04/26/99	Uni-ZAP XR	2182	757	1	757	565	4779	1	10	55
2173	HSOBH11	203959 04/26/99	Uni-ZAP XR	2183	818	1	818	131	4780	1		12
2174	HSOBP75	203959 04/26/99	Uni-ZAP XR	2184	821	1	821	438	4781	1	15	43

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2175	HSOBW65	203959 04/26/99	Uni-ZAP XR	2185	735	1	735	387	387	4782	1			18
2176	HSPA A89	203918 04/08/99	pSport1	2186	1372	1	1372	252	252	4783	1	20	21	55
2177	HSPAC13	203918 04/08/99	pSport1	2187	580	1	580	33	33	4784	1	21	22	37
2178	HSPAG75	PTA-793 09/27/99	pSport1	2188	2120	1	2120	246	246	4785	1	19	20	37
2179	HSPA120	203918 04/08/99	pSport1	2189	1467	1	1467	261	261	4786	1	20	21	44
2180	HSPAL59	PTA-181 06/07/99	pSport1	2190	1917	113	1383	250	250	4787	1	19	20	33
2181	HSPA Y90	203959 04/26/99	pSport1	2191	1164	1	1164	190	190	4788	1	29	30	49
2182	HSPMF63	203959 04/26/99	pSport1	2192	1180	1	1148		179	4789	1	18	19	33
2183	HSQAC69	PTA-791 09/27/99	Uni-ZAP XR	2193	2056	526	2056	671	671	4790	1	21	22	45
2184	HSQAHL14	203959 04/26/99	Uni-ZAP XR	2194	825	137	825		267	4791	1			13

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	5' NT 3' of Clone Seq.	5' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA of NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2185	HSQAX94	203918 04/08/99	Uni-ZAP XR	2195 3107	814	3107	886	886	4792	1	33	34	81
2186	HSQBL20	203959 04/26/99	Uni-ZAP XR	2196 939	405	918	183	183	4793	1	1	2	218
2187	HSQCQ45	203918 04/08/99	Uni-ZAP XR	2197 588	1	588	41	41	4794	1	25	26	30
2188	HSQCY74	PTA-793 09/27/99	Uni-ZAP XR	2198 2317	280	2317	440	440	4795	1			12
2189	HSQDM74	203918 04/08/99	Uni-ZAP XR	2199 1290	1	1290	192	192	4796	1	22	23	27
2190	HSQEG23	203959 04/26/99	Uni-ZAP XR	2200 2290	188	1071		302	4797	1	17	18	22
2191	HSQEG47	203959 04/26/99	Uni-ZAP XR	2201 1934	883	1905		1001	4798	1			12
2192	HSQFE72	203917 04/08/99	Uni-ZAP XR	2202 357	0	1	93	93	4799	1			27
2193	HSQFE76	PTA-181 06/07/99	Uni-ZAP XR	2203 1469	7	1469	31	31	4800	1	19	20	31
2194	HSQFV12	203918 04/08/99	Uni-ZAP XR	2204 567	1	567		267	4801	1	7	8	30

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO; X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO; Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2195	HSRAA81	203918 04/08/99	Uni-ZAP XR	2205	1679	1	1679	235	235	4802	1	18	19	43
2196	HSRAO56	203959 04/26/99	Uni-ZAP XR	2206	1598	11	1598		131	4803	1	19	20	20
2197	HSRAV28	203918 04/08/99	Uni-ZAP XR	2207	824	1	824		301	4804	1			14
2198	HSRDM56	203918 04/08/99	Uni-ZAP XR	2208	2023	1	2023	134	134	4805	1	27	28	73
2199	HSRDW57	203918 04/08/99	Uni-ZAP XR	2209	942	1	942		8	4806	1	20	21	117
2200	HSREC72	203918 04/08/99	Uni-ZAP XR	2210	884	1	884	172	172	4807	1	22	23	34
2201	HSREG42	203959 04/26/99	Uni-ZAP XR	2211	2637	578	2282	730	730	4808	1			27
2202	HSRFD18	203959 04/26/99	Uni-ZAP XR	2212	1889	1	1793	67	67	4809	1	20	21	28
2203	HSRGZ11	203959 04/26/99	Uni-ZAP XR	2213	785	1	785	208	208	4810	1			14
2204	HSRHB59	203959 04/26/99	Uni-ZAP XR	2214	854	1	844	308	308	4811	1	19	20	56
2205	HSSAN03	203918 04/08/99	Uni-ZAP XR	2215	753	1	753	130	130	4812	1	18	19	39

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2206	HSSCC66	203918 04/08/99	Uni-ZAP XR	2216	864	1	864	174	174	4813	1	18	19	36
2207	HSSDI13	203918 04/08/99	Uni-ZAP XR	2217	1863	1	1863	107	107	4814	1	25	26	36
2208	HSSDQ20	203959 04/26/99	Uni-ZAP XR	2218	1114	69	1114	261	261	4815	1	23	24	92
2209	HSSDX38	203959 04/26/99	Uni-ZAP XR	2219	796	1	796		244	4816	1	16	17	22
2210	HSSSD57	203918 04/08/99	Uni-ZAP XR	2220	1545	1	1545	191	191	4817	1	38	39	70
2211	HSSSL28	203959 04/26/99	Uni-ZAP XR	2221	1733	1	1733		166	4818	1	18	19	27
2212	HSSFP88	203918 04/08/99	Uni-ZAP XR	2222	1417	1	1417	141	141	4819	1	24	25	350
2213	HSSGS62	203918 04/08/99	Uni-ZAP XR	2223	1389	1	1389	249	249	4820	1	19	20	55
2214	HSSJA23	203979 04/29/99	Uni-ZAP XR	2224	1988	1	1988	261	261	4821	1	16	17	27
2215	HSSIF26	203918 04/08/99	Uni-ZAP XR	2225	1301	1	1301	177	177	4822	1	32	33	71

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2216	HSSJF96	PTA-181 06/07/99	Uni-ZAP XR	2226	2192	1	2192	14	14	4823	1	19	20	57
2217	HSSJM47	203979 04/29/99	Uni-ZAP XR	2227	1152	1	1000		151	4824	1			2
2218	HSSJW30	203979 04/29/99	Uni-ZAP XR	2228	1893	581	1880		713	4825	1	15	16	24
2219	HSSJW30	203979 04/29/99	Uni-ZAP XR	2229	2108	796	2095		928	4826	1	15	16	24
2220	HSSJW30	203979 04/29/99	Uni-ZAP XR	2230	2266	935	2234		1067	4827	1	15	16	24
2221	HSSMY35	203959 04/26/99	Uni-ZAP XR	2231	831	10	831	42	42	4828	1	19	20	54
2222	HSTAL93	203918 04/08/99	Uni-ZAP XR	2232	972	1	972	127	127	4829	1			13
2223	HSTBG23	203918 04/08/99	Uni-ZAP XR	2233	1695	1	1695	96	96	4830	1	26	27	31
2224	HSUAF06	PTA-181 06/07/99	Uni-ZAP XR	2234	1320	1	1320	109	109	4831	1	20	21	89
2225	HSUBX67	203918 04/08/99	Uni-ZAP XR	2235	805	1	805		295	4832	1			11

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2226	HSUSB73	203918 04/08/99	pBluescript	2236	1538	1	1538	158	158	4833	1	23	24	91
2227	HSVAC05	203979 04/29/99	Uni-ZAP XR	2237	698	1	698	60	60	4834	1	32	33	37
2228	HSVAE42	203918 04/08/99	Uni-ZAP XR	2238	525	1	525		295	4835	1	11	12	40
2229	HSVAL83	203959 04/26/99	Uni-ZAP XR	2239	861	1	861	308	308	4836	1	32	33	36
2230	HSVAT36	203959 04/26/99	Uni-ZAP XR	2240	571	1	571		162	4837	1			2
2231	HSVAV02	203959 04/26/99	Uni-ZAP XR	2241	446	1	446	309	309	4838	1			31
2232	HSVBA83	203959 04/26/99	Uni-ZAP XR	2242	780	1	780	139	139	4839	1			15
2233	HSVBD37	203959 04/26/99	Uni-ZAP XR	2243	464	1	464	146	146	4840	1			6
2234	HSVBN46	203959 04/26/99	Uni-ZAP XR	2244	785	1	785	120	120	4841	1	21	22	44
2235	HSVBY62	203959 04/26/99	Uni-ZAP XR	2245	410	1	410		188	4842	1	23	24	28
2236	HSVBZ53	203959 04/26/99	Uni-ZAP XR	2246	1304	317	1243	461	461	4843	1	16	17	25

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	5' NT of Total Clone Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Sig Portion	Last AA of ORF
2237	HSVCF53	203959 04/26/99	Uni-ZAP XR	2247	1248	1	1248	259	259	4844	1		23
2238	HSWAZ17	203918 04/08/99	pCMVSPORT 3.0	2248	914	1	914	257	257	4845	1		18
2239	HSWBI16	203959 04/26/99	pCMVSPORT 3.0	2249	1122	627	1122	817	817	4846	1	21	21
2240	HSXA144	203918 04/08/99	Uni-ZAP XR	2250	1041	1	1041	132	132	4847	1		26
2241	HSXAJ07	203918 04/08/99	Uni-ZAP XR	2251	900	1	900	217	217	4848	1		5
2242	HSXAS59	203959 04/26/99	Uni-ZAP XR	2252	1536	94	1536		244	4849	1	31	92
2243	HSXAX20	203918 04/08/99	Uni-ZAP XR	2253	1388	1	1388		347	4850	1		9
2244	HSXAY60	203959 04/26/99	Uni-ZAP XR	2254	1769	1	1769	345	345	4851	1	13	100
2245	HSXBB78	203918 04/08/99	Uni-ZAP XR	2255	1502	1	1502	156	156	4852	1		16
2246	HSXCA83	203959 04/26/99	Uni-ZAP XR	2256	2199	1413	2199		1796	4853	1		16
2247	HSXCX20	203959 04/26/99	Uni-ZAP XR	2257	1385	1	1385		95	4854	1	12	36

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2248	HSXFG21	203917 04/08/99	Uni-ZAP XR	2258	3787	738	3787		989	4855	1			1
2249	HSXFFH82	203959 04/26/99	Uni-ZAP XR	2259	1705	1	1678		182	4856	1	17	18	34
2250	HSYBD33	203918 04/08/99	pCMVSPORT 3.0	2260	1067	1	1067		329	4857	1	19	20	52
2251	HSYBR79	PTA-791 09/27/99	pCMVSPORT 3.0	2261	2270	6	2264	425	425	4858	1	23	24	57
2252	HSYBV44	203959 04/26/99	pCMVSPORT 3.0	2262	778	1	778	84	84	4859	1	32	33	47
2253	HSYBZ94	203959 04/26/99	pCMVSPORT 3.0	2263	3268	1	3268	52	52	4860	1	35	36	79
2254	HT3AB13	203979 04/29/99	Uni-ZAP XR	2264	3350	1954	3315	2055	2055	4861	1	21	22	63
2255	HT4SB02	203917 04/08/99	Uni-ZAP XR	2265	3054	95	1189	21	21	4862	1	1	2	168
2256	HT4SB37	203918 04/08/99	Uni-ZAP XR	2266	1029	1	1029	299	299	4863	1	33	34	35
2257	HT4SB81	203959 04/26/99	Uni-ZAP XR	2267	2319	959	2319	1168	1168	4864	1	13	14	35

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2258	HT4SB81	203959 04/26/99	Uni-ZAP XR	2268	2331	962	2320	1171	4865	1	13	14	35
2259	HT4SB81	203959 04/26/99	Uni-ZAP XR	2269	2331	962	2320	1171	4866	1	13	14	35
2260	HT5FX76	203959 04/26/99	Uni-ZAP XR	2270	643	1	643	98	4867	1	32	33	52
2261	HTABF81	203918 04/08/99	Uni-ZAP XR	2271	1620	1	1620	255	4868	1			15
2262	HTACX63	203959 04/26/99	Uni-ZAP XR	2272	1095	1	1095	202	4869	1			18
2263	HTADC63	203979 04/29/99	Uni-ZAP XR	2273	2458	1	2406	188	4870	1	17	18	215
2264	HTADO61	203959 04/26/99	Uni-ZAP XR	2274	1127	1	1127	217	4871	1	28	29	39
2265	HTADQ22	203918 04/08/99	Uni-ZAP XR	2275	378	1	378	205	4872	1	23	24	24
2266	HTAEC59	203979 04/29/99	Uni-ZAP XR	2276	2056	1	2056	287	4873	1	16	17	21
2267	HTAED89	203918 04/08/99	Uni-ZAP XR	2277	2366	1	2366	979	4874	1	16	17	200
2268	HTAEF02	203979 04/29/99	Uni-ZAP XR	2278	2761	1	2761	183	4875	1	16	17	51

Gene No.	ϕDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Clone Seq. Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2269	HTAEH58	203959 04/26/99	Uni-ZAP XR	2279	1601	147	1601	295	4876	1	15	16	54
2270	HTAEO35	203959 04/26/99	Uni-ZAP XR	2280	1514	1	1514	63	4877	1	33	34	35
2271	HTDAF68	203918 04/08/99	pSport1	2281	1079	1	1079	167	4878	1	34	35	54
2272	HTDAI38	PTA-792 09/27/99	pSport1	2282	2814	1188	2796	1414	4879	1	21	22	76
2273	HTEA187	PTA-181 06/07/99	Uni-ZAP XR	2283	2200	1	2200	67	4880	1	24	25	38
2274	HTEAN76	203959 04/26/99	Uni-ZAP XR	2284	966	188	955	290	4881	1	31	32	37
2275	HTEBL56	203918 04/08/99	Uni-ZAP XR	2285	1512	1	1512	180	4882	1	15	16	21
2276	HTECE87	203959 04/26/99	Uni-ZAP XR	2286	946	1	946	157	4883	1	33	34	41
2277	HTEDF78	203918 04/08/99	Uni-ZAP XR	2287	1570	1	1570	83	4884	1	34	35	53
2278	HTEDT87	203979 04/29/99	Uni-ZAP XR	2288	2418	726	2418	949	4885	1			17

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2279	HTEDX05	PTA-181 06/07/99	Uni-ZAP XR	2289	2220	1	2220	65	65	4886	1	18	19	20
2280	HTEEC19	PTA-181 06/07/99	Uni-ZAP XR	2290	1721	1	1721	72	72	4887	1	21	22	30
2281	HTEGH03	203959 04/26/99	Uni-ZAP XR	2291	2267	91	2248	156	156	4888	1	19	20	33
2282	HTEGH03	203959 04/26/99	Uni-ZAP XR	2292	2158	1	2151		1	4889	1	1	2	233
2283	HTEGS48	203918 04/08/99	Uni-ZAP XR	2293	763	1	763	289	289	4890	1	20	21	49
2284	HTEGY81	203918 04/08/99	Uni-ZAP XR	2294	1134	1	1134	36	36	4891	1			20
2285	HTEHB11	203959 04/26/99	Uni-ZAP XR	2295	963	1	963	271	271	4892	1			12
2286	HTEHB49	203959 04/26/99	Uni-ZAP XR	2296	1876	1	1738	192	192	4893	1	20	21	35
2287	HTEHS91	PTA-181 06/07/99	Uni-ZAP XR	2297	2202	1	2186	343	343	4894	1	17	18	66
2288	HTEHV60	203918 04/08/99	Uni-ZAP XR	2298	1316	1	1316	38	38	4895	1	23	24	30

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2289	HTEHW80	PTA-181 06/07/99	Uni-ZAP XR	2299	1167	1	1167	96	4896	1	12	13	29
2290	HTEID25	203959 04/26/99	Uni-ZAP XR	2300	1436	1	1436	141	4897	1	18	19	38
2291	HTEIJ23	203917 04/08/99	Uni-ZAP XR	2301	2593	1	1398	156	4898	1			17
2292	HTEIM62	203959 04/26/99	Uni-ZAP XR	2302	673	196	673	183	4899	1			24
2293	HTEIV33	203959 04/26/99	Uni-ZAP XR	2303	1051	1	1051	207	4900	1			6
2294	HTEIV65	203918 04/08/99	Uni-ZAP XR	2304	743	1	743	102	4901	1	20	21	41
2295	HTEIC50	203959 04/26/99	Uni-ZAP XR	2305	429	1	429	96	4902	1	21	22	29
2296	HTEID20	203918 04/08/99	Uni-ZAP XR	2306	1471	1	1471	257	4903	1			11
2297	HTEID61	203959 04/26/99	Uni-ZAP XR	2307	1154	1	1154	94	4904	1	23	24	24
2298	HTEJF31	203959 04/26/99	Uni-ZAP XR	2308	395	1	395	124	4905	1	18	19	40

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2299	HTEI129	203959 04/26/99	Uni-ZAP XR	2309	975	1	975	298	298	4906	1	15	16	17
2300	HTEI16	203959 04/26/99	Uni-ZAP XR	2310	1158	1	1158	136	136	4907	1	26	27	37
2301	HTEIP65	203918 04/08/99	Uni-ZAP XR	2311	754	1	754	389	389	4908	1	20	21	33
2302	HTEIY20	203959 04/26/99	Uni-ZAP XR	2312	2908	1602	2908	1747	1747	4909	1	18	19	44
2303	HTEKD35	203959 04/26/99	Uni-ZAP XR	2313	688	1	688	41	41	4910	1	15	16	31
2304	HTEKP82	203959 04/26/99	Uni-ZAP XR	2314	930	1	930	457	457	4911	1	15	16	35
2305	HTEKV69	PTA-792 09/27/99	Uni-ZAP XR	2315	1663	1	1663	634	634	4912	1	33	34	322
2306	HTEKZ52	203959 04/26/99	Uni-ZAP XR	2316	288	1	288	146	146	4913	1	23	24	32
2307	HTEQG28	203959 04/26/99	Uni-ZAP XR	2317	1719	1	1719		389	4914	1	15	16	21
2308	HTEOB75	PTA-1838 05/09/00	pSport1	2318	3299	1996	3274	2365	2365	4915	1	46	47	142

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2309	HTGAA35	203959 04/26/99	Uni-ZAP XR	2319	1633	25	1633	180	180	4916	1		10
2310	HTGAD74	203959 04/26/99	Uni-ZAP XR	2320	890	7	890		311	4917	1	14	23
2311	HTGAP05	203918 04/08/99	Uni-ZAP XR	2321	1074	670	1074	211	211	4918	1		23
2312	HTGAQ29	203918 04/08/99	Uni-ZAP XR	2322	631	1	631	127	127	4919	1	20	52
2313	HTGAR21	203959 04/26/99	Uni-ZAP XR	2323	1104	1	1104	97	97	4920	1	23	34
2314	HTGAS70	203918 04/08/99	Uni-ZAP XR	2324	1803	1	1803	435	435	4921	1	22	42
2315	HTGAT65	203918 04/08/99	Uni-ZAP XR	2325	1610	1	1610	155	155	4922	1		16
2316	HTGAU17	203918 04/08/99	Uni-ZAP XR	2326	1228	1	1228	109	109	4923	1	25	34
2317	HTGBF47	203918 04/08/99	Uni-ZAP XR	2327	787	1	787	188	188	4924	1	32	73
2318	HTGBK95	203959 04/26/99	Uni-ZAP XR	2328	1131	1	1131	271	271	4925	1	12	16
2319	HTGCC01	203918 04/08/99	Uni-ZAP XR	2329	1133	1	1133	55	55	4926	1		28

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of AA of Signal	First AA of AA of NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First Secreted of AA of ORF	Last of AA of ORF
2320	HTGCK43	203959 04/26/99	Uni-ZAP XR	2330 962	208	956	231	231	4927	1	6	7	15
2321	HTGDS43	203918 04/08/99	Uni-ZAP XR	2331 950	1	950	271	271	4928	1	17	18	22
2322	HTGDS92	203918 04/08/99	Uni-ZAP XR	2332 1325	1	1325	80	80	4929	1	31	32	39
2323	HTGEX34	PTA-792 09/27/99	Uni-ZAP XR	2333 2301	1	2301	13	13	4930	1	22	23	44
2324	HTGFM31	PTA-181 06/07/99	Uni-ZAP XR	2334 2057	1	2057	73	73	4931	1	30	31	38
2325	HTGGM37	203959 04/26/99	Uni-ZAP XR	2335 1927	1	1927	290	290	4932	1	20	21	27
2326	HTGGN22	203959 04/26/99	Uni-ZAP XR	2336 793	1	793		243	4933	1			20
2327	HTHAA41	203918 04/08/99	Uni-ZAP XR	2337 1943	1	1943	128	128	4934	1	14	15	32
2328	HTHBC58	203918 04/08/99	Uni-ZAP XR	2338 1479	458	1479	519	519	4935	1			14
2329	HTHBO72	203959 04/26/99	Uni-ZAP XR	2339 538	1	538	335	335	4936	1	17	18	20

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Sig Portion	Last of AA of ORF
2330	HTHBQ29	203918 04/08/99	Uni-ZAP XR	2340	1090	1	1090	165	165	4937	1	21	22	39
2331	HTHBT76	PTA-181 06/07/99	Uni-ZAP XR	2341	2025	1	2025	207	207	4938	1			12
2332	HTHBZ91	203918 04/08/99	Uni-ZAP XR	2342	986	1	986	31	31	4939	1	35	36	37
2333	HTHCA30	203959 04/08/99	Uni-ZAP XR	2343	627	1	627	158	158	4940	1			23
2334	HTHCM60	203918 04/08/99	Uni-ZAP XR	2344	1220	1	1220		250	4941	1			7
2335	HTHDB20	203918 04/08/99	Uni-ZAP XR	2345	657	1	657	105	105	4942	1	41	42	72
2336	HTHDF45	203918 04/08/99	Uni-ZAP XR	2346	1026	1	1026	175	175	4943	1	13	14	21
2337	HTHDF86	203918 04/08/99	Uni-ZAP XR	2347	1535	1	1535		118	4944	1	43	44	80
2338	HTHDH18	203918 04/08/99	Uni-ZAP XR	2348	1242	1	1242		247	4945	1	17	18	67
2339	HTHDP65	203918 04/08/99	Uni-ZAP XR	2349	633	1	633	217	217	4946	1	17	18	43

Gene No.	eDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2340	HTHDT25	203918 04/08/99	Uni-ZAP XR	2350	422	1	422	60	60	4947	1	34	35	45
2341	HTHDV50	203959 04/26/99	Uni-ZAP XR	2351	535	1	391		119	4948	1	6	7	23
2342	HTJMA64	203918 04/08/99	pCMVSPORT 2.0	2352	2259	1	2259	138	138	4949	1	28	29	92
2343	HTJMJ72	203959 04/26/99	pCMVSPORT 2.0	2353	854	1	854	263	263	4950	1	23	24	27
2344	HTLAD74	203959 04/26/99	Uni-ZAP XR	2354	971	1	971	163	163	4951	1	17	18	33
2345	HTLAF81	PTA-181 06/07/99	Uni-ZAP XR	2355	1229	1	1229		195	4952	1	14	15	190
2346	HTLBF46	203959 04/26/99	Uni-ZAP XR	2356	1260	1	1235	176	176	4953	1	18	19	194
2347	HTLBF63	203959 04/26/99	Uni-ZAP XR	2357	1124	1	1124	97	97	4954	1	12	13	232
2348	HTLCX82	203979 04/29/99	Uni-ZAP XR	2358	920	1	920		46	4955	1	15	16	75
2349	HTLDD89	203959 04/26/99	Uni-ZAP XR	2359	489	1	489	263	263	4956	1	21	22	49

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2350	HTLDN34	PTA-181 06/07/99	Uni-ZAP XR	2360	882	1	882	84	84	4957	1	19	20	93
2351	HTLDP19	PTA-793 09/27/99	Uni-ZAP XR	2361	957	1	957	99	99	4958	1	23	24	176
2352	HTLDY30	PTA-1838 05/09/00	Uni-ZAP XR	2362	1240	1	1240	115	115	4959	1			8
2353	HTLEJ24	203918 04/08/99	Uni-ZAP XR	2363	928	1	928	110	110	4960	1	18	19	170
2354	HTLEJ75	203959 04/26/99	Uni-ZAP XR	2364	2569	1336	2533	1559	1559	4961	1			13
2355	HTLEJ75	203959 04/26/99	Uni-ZAP XR	2365	1192	1	1192	224	224	4962	1			13
2356	HTLEP55	203918 04/08/99	Uni-ZAP XR	2366	1507	1	1507	133	133	4963	1	38	39	152
2357	HTLEV80	PTA-181 06/07/99	Uni-ZAP XR	2367	1129	1	1129	276	276	4964	1	18	19	75
2358	HTLEZ57	203959 04/26/99	Uni-ZAP XR	2368	1003	1	1003	187	187	4965	1	15	16	35

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ NO: Y	First AA of Sig Pep	Last of AA of Sig Pep	First AA of Secreted Portion	Last of AA of ORF
2359	HTLFA90	203960 04/26/99	Uni-ZAP XR	2369	1314	1	1304	131	4966	1	32	33	314	
2360	HTLGL33	203959 04/26/99	Uni-ZAP XR	2370	1703	539	1703	763	4967	1	19	20	174	
2361	HTLGQ25	PTA-795 09/27/99	Uni-ZAP XR	2371	669	1	669	24	4968	1	28	29	170	
2362	HTLGS72	PTA-795 09/27/99	Uni-ZAP XR	2372	1189	1	1189	363	4969	1	19	20	85	
2363	HTLGY50	203959 04/26/99	Uni-ZAP XR	2373	1245	1	1245	337	4970	1	23	24	303	
2364	HTLHN86	203959 04/26/99	Uni-ZAP XR	2374	2204	1059	2133	1413	4971	1	20	21	187	
2365	HTLHN86	203959 04/26/99	Uni-ZAP XR	2375	2240	1059	2184	1413	4972	1	20	21	187	
2366	HTLHN86	203959 04/26/99	Uni-ZAP XR	2376	2240	1059	2133	1413	4973	1	20	21	187	
2367	HTLHN86	203959 04/26/99	Uni-ZAP XR	2377	2240	1059	2133	1413	4974	1	20	21	187	
2368	HTLIW29	PTA-795 09/27/99	Uni-ZAP XR	2378	1082	1	1082	10	4975	1	19	20	314	

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2369	HTLJC15	PTA-1838 05/09/00	Uni-ZAP XR	2379	1913	697	1873	996	4976	1	38	39	240
2370	HTNAL14	PTA-793 09/27/99	pBluescript SK-	2380	1989	1	1989	166	4977	1	18	19	31
2371	HTNAL34	203918 04/08/99	pBluescript SK-	2381	336	1	336	225	4978	1	15	16	23
2372	HTNB15	203959 04/26/99	pBluescript SK-	2382	2794	1511	2782	1737	4979	1	22	23	51
2373	HTNB15	203959 04/26/99	pBluescript SK-	2383	2792	1511	2763	1737	4980	1	22	23	51
2374	HTNB15	203959 04/26/99	pBluescript SK-	2384	3351	1511	2764	1737	4981	1	22	23	51
2375	HTNB15	203959 04/26/99	pBluescript SK-	2385	2794	1511	2765	1737	4982	1	22	23	51
2376	HTOAC65	203918 04/08/99	Uni-ZAP XR	2386	1014	1	1014		4983	1	9	10	28
2377	HTOAE47	PTA-181 06/07/99	Uni-ZAP XR	2387	1382	1	1382	138	4984	1			15
2378	HTOAK03	203918 04/08/99	Uni-ZAP XR	2388	1282	1	1282	64	4985	1	49	50	51

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2379	HTOAO58	PTA-181 06/07/99	Uni-ZAP XR	2389	1637	1	1637	157	4986	1	13	14	34
2380	HTOAT56	203959 04/26/99	Uni-ZAP XR	2390	1522	1	1522		4987	1	19	20	118
2381	HTOBG07	203918 04/08/99	Uni-ZAP XR	2391	1344	1	1344		4988	1			4
2382	HTOBG62	203918 04/08/99	Uni-ZAP XR	2392	1399	1	1399		4989	1	27	28	36
2383	HTODA92	PTA-181 06/07/99	Uni-ZAP XR	2393	3261	1346	3251		4990	1	21	22	62
2384	HTODN35	203918 04/08/99	Uni-ZAP XR	2394	1594	1	1594	67	4991	1			14
2385	HTODO45	203918 04/08/99	Uni-ZAP XR	2395	1455	1	1455		4992	1			16
2386	HTOEAE53	203918 04/08/99	Uni-ZAP XR	2396	2020	1	2020	56	4993	1	22	23	31
2387	HTOEB55	203918 04/08/99	Uni-ZAP XR	2397	1774	1	1774		4994	1	14	15	19
2388	HTOEB76	203918 04/08/99	Uni-ZAP XR	2398	1619	1	1619		4995	1			6

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2389	HTOET03	203917 04/08/99	Uni-ZAP XR	2399	1921	434	1897	518	518	4996	1			24
2390	HTOET03	203917 04/08/99	Uni-ZAP XR	2400	1920	434	1897	518	518	4997	1			24
2391	HTOEV01	203918 04/08/99	Uni-ZAP XR	2401	2206	1	2206		194	4998	1	7	8	46
2392	HTOFA11	203918 04/08/99	Uni-ZAP XR	2402	2597	1	2597	99	99	4999	1	18	19	43
2393	HTOFC33	203918 04/08/99	Uni-ZAP XR	2403	1075	1	1075		159	5000	1			23
2394	HTOGB79	203959 04/26/99	Uni-ZAP XR	2404	2778	1	2778	138	138	5001	1	19	20	40
2395	HTOHE22	203959 04/26/99	Uni-ZAP XR	2405	1904	1	1904		358	5002	1			14
2396	HTOHG63	203959 04/26/99	Uni-ZAP XR	2406	1918	773	1918	922	922	5003	1	31	32	37
2397	HTOHI93	203918 04/08/99	Uni-ZAP XR	2407	1768	1	1768	86	86	5004	1			15
2398	HTOHI12	203918 04/08/99	Uni-ZAP XR	2408	2196	1	2196	100	100	5005	1	29	30	31
2399	HTOHI82	203959 04/26/99	Uni-ZAP XR	2409	1561	1	1561	26	26	5006	1	45	46	71

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First AA of Signal Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2400	HTOHN40	203959 04/26/99	Uni-ZAP XR	2410	1963	1	1963	50	5007	1	21	22	34
2401	HTOHR59	203959 04/26/99	Uni-ZAP XR	2411	1300	1	1300	110	5008	1	18	19	37
2402	HTOHS29	203959 04/26/99	Uni-ZAP XR	2412	1146	1	1104	275	5009	1			14
2403	HTOID65	203918 04/08/99	Uni-ZAP XR	2413	1472	1	1472	56	5010	1	25	26	36
2404	HTOIE17	203959 04/26/99	Uni-ZAP XR	2414	1117	1	1117	99	5011	1	23	24	35
2405	HTOIG16	203959 04/26/99	Uni-ZAP XR	2415	1797	1	1797		5012	1	19	20	23
2406	HTOIH39	203959 04/26/99	Uni-ZAP XR	2416	1435	1	1435	215	5013	1	20	21	30
2407	HTOIH51	203959 04/26/99	Uni-ZAP XR	2417	1472	1	1472	296	5014	1	19	20	47
2408	HTOIB02	203918 04/08/99	Uni-ZAP XR	2418	1447	1	1447	107	5015	1	43	44	134
2409	HTOIJ26	203959 04/26/99	Uni-ZAP XR	2419	3003	838	3003	1034	5016	1	16	17	48

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2410	HTOIP25	PTA-181 06/07/99	Uni-ZAP XR	2420	1524	1	1524	268	268	5017	1	18	19	33
2411	HTOIS23	203959 04/26/99	Uni-ZAP XR	2421	1842	1	1842		130	5018	1	18	19	53
2412	HTOJY56	203918 04/08/99	Uni-ZAP XR	2422	1895	1	1895	244	244	5019	1	26	27	33
2413	HTOJIZ18	203959 04/26/99	Uni-ZAP XR	2423	1641	189	1641	234	234	5020	1	20	21	33
2414	HTPCG10	203959 04/26/99	Uni-ZAP XR	2424	1807	134	1445	145	145	5021	1	28	29	53
2415	HTPCO75	PTA-181 06/07/99	Uni-ZAP XR	2425	1467	1	1467		73	5022	1	23	24	40
2416	HTPCW21	203959 04/26/99	Uni-ZAP XR	2426	1293	1	1293	171	171	5023	1	35	36	60
2417	HTPDD68	203918 04/08/99	Uni-ZAP XR	2427	2068	175	2068	509	509	5024	1	24	25	31
2418	HTPDV75	203918 04/08/99	Uni-ZAP XR	2428	389	1	389	240	240	5025	1	18	19	47
2419	HTSER28	203979 04/29/99	pBluescript	2429	2027	1	1573	153	153	5026	1			13

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Clone Seq. Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2420	HTSET62	203959 04/26/99	pBluescript	2430	1345	968	1345	1147	5027	1	15	16	17
2421	HTSFV18	203918 04/08/99	pBluescript	2431	1093	1	1093	134	5028	1	41	42	50
2422	HTSGO13	203959 04/26/99	pBluescript	2432	1300	337	879	699	5029	1	9	10	49
2423	HTSGO88	203959 04/26/99	pBluescript	2433	798	1	798	249	5030	1			21
2424	HTTAH05	203918 04/08/99	Uni-ZAP XR	2434	1050	1	1050	39	5031	1	33	34	35
2425	HTTAP37	203918 04/08/99	Uni-ZAP XR	2435	1040	15	1040	104	5032	1	30	31	45
2426	HTTB138	PTA-181 06/07/99	Uni-ZAP XR	2436	2364	401	2329	585	5033	1			15
2427	HTTDB11	203959 04/26/99	Uni-ZAP XR	2437	524	65	524	130	5034	1	32	33	37
2428	HTTDG27	203918 04/08/99	Uni-ZAP XR	2438	711	1	711		5035	1	17	18	99
2429	HTTDN24	203959 04/26/99	Uni-ZAP XR	2439	1992	856	1992		5036	1	13	14	234

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO:	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:	First of AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2430	HTTDO33	PTA-1838 05/09/00	Uni-ZAP XR	2440	1161	1	1161	22	22	5037	1	30	31	244
2431	HTTDT67	203918 04/08/99	Uni-ZAP XR	2441	1255	1	1255	44	44	5038	1	32	33	68
2432	HTTEO25	PTA-181 06/07/99	Uni-ZAP XR	2442	2204	1	2204		188	5039	1	30	31	57
2433	HTTEP11	203918 04/08/99	Uni-ZAP XR	2443	1409	1	1409		236	5040	1	5	6	7
2434	HTTES77	203918 04/08/99	Uni-ZAP XR	2444	2389	1084	2379	1133	1133	5041	1	20	21	40
2435	HTTFD29	PTA-181 06/07/99	Uni-ZAP XR	2445	1338	1	1338	52	52	5042	1	20	21	28
2436	HTTFG15	203918 04/08/99	Uni-ZAP XR	2446	1081	1	1081	30	30	5043	1	19	20	27
2437	HTWAM19	203918 04/08/99	Lambda ZAP II	2447	1877	1	1877	160	160	5044	1			47
2438	HTWBF58	203918 04/08/99	pSport1	2448	1352	1	1332	111	111	5045	1	22	23	32
2439	HTWBO30	203918 04/08/99	pSport1	2449	773	1	773	137	137	5046	1	43	44	76

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of Sig Pep	Last of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2440	HTWBZ57	203959 04/26/99	pSport1	2450	1667	777	1658	990	5047	1	27	28	28
2441	HTWCC10	203918 04/08/99	pSport1	2451	1241	1	1241	244	5048	1	17	18	20
2442	HTWCE14	203959 04/26/99	pSport1	2452	1054	828	1036	892	5049	1	29	30	54
2443	HTWCT76	203918 04/08/99	pSport1	2453	1560	1	1560	143	5050	1			16
2444	HTWDJ17	203918 04/08/99	pSport1	2454	1390	1	1390	302	5051	1	22	23	318
2445	HTWDM89	203918 04/08/99	pSport1	2455	1472	1	1472	244	5052	1	16	17	24
2446	HTWEA05	PTA-181 06/07/99	pSport1	2456	893	1	893	198	5053	1	26	27	33
2447	HTWEG06	203959 04/26/99	pSport1	2457	1066	1	1066		5054	1	13	14	57
2448	HTWEQ36	203918 04/08/99	pSport1	2458	1436	1	1436	133	5055	1	20	21	32
2449	HTWEA21	203918 04/08/99	pSport1	2459	684	83	613	93	5056	1	29	30	46

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2450	HTWFA88	203918 04/08/99	pSport1	2460	1851	1	1851	293	293	5057	1	13	14	116
2451	HTWFM85	203918 04/08/99	pSport1	2461	1693	319	1693	680	680	5058	1	20	21	39
2452	HTWFO43	PTA-181 06/07/99	pSport1	2462	1298	1	1298	193	193	5059	1	20	21	30
2453	HTWLG39	PTA-181 06/07/99	Lambda ZAP II	2463	504	1	504	200	200	5060	1	28	29	32
2454	HTXAA20	203959 04/26/99	Uni-ZAP XR	2464	761	1	761	30	30	5061	1	29	30	50
2455	HTXAD75	203959 04/26/99	Uni-ZAP XR	2465	1924	1	1924		49	5062	1	19	20	41
2456	HTXAR92	203918 04/08/99	Uni-ZAP XR	2466	1600	1	1600	35	35	5063	1	15	16	26
2457	HTXBS38	203918 04/08/99	Uni-ZAP XR	2467	759	1	759	261	261	5064	1			16
2458	HTXBU88	203918 04/08/99	Uni-ZAP XR	2468	776	1	776	159	159	5065	1	18	19	34
2459	HTXCP27	PTA-1838 05/09/00	Uni-ZAP XR	2469	1573	1	1573		153	5066	1			15

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of First AA of Signal Codon	5' NT of First ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2460	HTXCU30	203918 04/08/99	Uni-ZAP XR	2470	1440	98	1440	221	5067	1		14
2461	HTXCV44	203918 04/08/99	Uni-ZAP XR	2471	1544	1	1544	181	5068	1	22	64
2462	HTXDJ21	203959 04/26/99	Uni-ZAP XR	2472	1335	15	1335	189	5069	1	27	42
2463	HTXDJ75	203918 04/08/99	Uni-ZAP XR	2473	1628	1	1628	253	5070	1	16	45
2464	HTXDJ85	203918 04/08/99	Uni-ZAP XR	2474	1957	1	1957	210	5071	1	25	27
2465	HTXDK09	203959 04/26/99	Uni-ZAP XR	2475	636	1	369	118	5072	1	29	31
2466	HTXDO17	203959 04/26/99	Uni-ZAP XR	2476	1320	1	1320	149	5073	1	46	56
2467	HTXDJ72	203959 04/26/99	Uni-ZAP XR	2477	1521	1	1521	267	5074	1	10	70
2468	HTXDU08	203959 04/26/99	Uni-ZAP XR	2478	1103	1	1103	168	5075	1	26	34
2469	HTXDZ68	203959 04/26/99	Uni-ZAP XR	2479	968	1	968	323	5076	1	17	27
2470	HTXEN33	203918 04/08/99	Uni-ZAP XR	2480	1544	1	1544	151	5077	1	32	43

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	5' NT of 3' NT Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2471	HTXES13	203959 04/26/99	Uni-ZAP XR	2481	677	1	677	179	5078	1	17	18	81
2472	HTXFD86	PTA-1838 05/09/00	Uni-ZAP XR	2482	1678	1	1678	132	5079	1			15
2473	HTXGK12	PTA-1838 05/09/00	Uni-ZAP XR	2483	1679	1	1393	102	5080	1			32
2474	HTXGL32	203917 04/08/99	Uni-ZAP XR	2484	1425	1	1425	113	5081	1	30	31	32
2475	HTXID08	203918 04/08/99	Uni-ZAP XR	2485	1238	1	1238	192	5082	1			4
2476	HTXID85	203959 04/26/99	Uni-ZAP XR	2486	1117	1	1117	211	5083	1	16	17	31
2477	HTXIE12	PTA-181 06/07/99	Uni-ZAP XR	2487	1640	1	1640	204	5084	1	22	23	83
2478	HTXJ159	PTA-791 09/27/99	Uni-ZAP XR	2488	2060	49	1195		5085	1	6	7	12
2479	HTXJ192	PTA-793 09/27/99	Uni-ZAP XR	2489	823	1	823	275	5086	1			9

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of Sig Pep	Last AA of Sig Pep	First of AA of Secreted Portion	Last AA of ORF
2480	HTXJM94	PTA-181 06/07/99	Uni-ZAP XR	2490	938	1	938	44	5087	1	46	47	73
2481	HTXJW54	203918 04/08/99	Uni-ZAP XR	2491	1896	1	1896	269	5088	1			9
2482	HTXJW06	203979 04/29/99	Uni-ZAP XR	2492	1494	511	1494	635	5089	1	19	20	129
2483	HTXKB57	203979 04/29/99	Uni-ZAP XR	2493	2836	570	2801	867	5090	1	16	17	61
2484	HTXKH22	203918 04/08/99	Uni-ZAP XR	2494	1073	1	1073		5091	1			12
2485	HTXKH40	203918 04/08/99	Uni-ZAP XR	2495	1290	1	1290	153	5092	1	21	22	46
2486	HTXKK76	PTA-181 06/07/99	Uni-ZAP XR	2496	1629	1	1629	54	5093	1	26	27	52
2487	HTXKL53	203959 04/26/99	Uni-ZAP XR	2497	1610	278	1610	1245	5094	1	24	25	46
2488	HTXKS11	203918 04/08/99	Uni-ZAP XR	2498	1945	1	1945	133	5095	1	22	23	38
2489	HTXKS27	PTA-792 09/27/99	Uni-ZAP XR	2499	1455	1	1455	286	5096	1	20	21	55

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Clone Seq.	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2490	HTXLC05	203959 04/26/99	Uni-ZAP XR	2500	743	1	743	295	5097	1	28	29	80
2491	HTXLC45	203959 04/26/99	Uni-ZAP XR	2501	715	1	715	359	5098	1	22	23	50
2492	HTXLT36	203959 04/26/99	Uni-ZAP XR	2502	1040	1	1038	189	5099	1			13
2493	HTXLY94	203959 04/26/99	Uni-ZAP XR	2503	3511	698	1568	893	5100	1	24	25	35
2494	HTXNV66	203959 04/26/99	Uni-ZAP XR	2504	2058	1	2058	674	5101	1	9	10	91
2495	HTXOL30	203959 04/26/99	Uni-ZAP XR	2505	840	1	840	272	5102	1			14
2496	HTXOW27	203959 04/26/99	Uni-ZAP XR	2506	2387	627	2372	1070	5103	1	16	17	26
2497	HTXPD86	203959 04/26/99	Uni-ZAP XR	2507	2064	559	1458	900	5104	1	21	22	47
2498	HTXPT57	PTA-1838 05/09/00	Uni-ZAP XR	2508	1127	1	1127	93	5105	1	23	24	92
2499	HTYSJ88	203918 04/08/99	pBluescript	2509	772	1	772	44	5106	1	15	16	35

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2500	HUDBE20	203918 04/08/99	ZAP Express	2510	1014	1	1014	202	202	5107	1	33	34	39
2501	HUDBK47	203918 04/08/99	ZAP Express	2511	1642	1	1642	147	147	5108	1	36	37	39
2502	HUFAB37	203918 04/08/99	pSport1	2512	1534	1	1534	232	232	5109	1	17	18	38
2503	HUFAL17	203918 04/08/99	pSport1	2513	857	1	857	54	54	5110	1	13	14	32
2504	HUFAO92	203918 04/08/99	pSport1	2514	819	1	819	304	304	5111	1	12	13	73
2505	HUFAO94	203959 04/26/99	pSport1	2515	739	1	739	229	229	5112	1			13
2506	HUFAP33	203918 04/08/99	pSport1	2516	1537	1	1537	60	60	5113	1	23	24	328
2507	HUFAU71	203959 04/26/99	pSport1	2517	2146	887	2130	1041	1041	5114	1			31
2508	HUFBK95	203959 04/26/99	pSport1	2518	1384	1	1384	174	174	5115	1			16
2509	HUFBP77	203918 04/08/99	pSport1	2519	1374	1	1374	95	95	5116	1	22	23	109
2510	HUFBV62	203959 04/26/99	pSport1	2520	743	1	743	453	453	5117	1	23	24	31

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2511	HUFBY96	203959 04/26/99	pSport1	2521	736	1	736	334	5118	1	19	20	25
2512	HUFEN72	203918 04/08/99	pSport1	2522	803	1	803	253	5119	1	15	16	30
2513	HUFEF79	203959 04/26/99	pSport1	2523	1010	1	1010	201	5120	1			20
2514	HUKAD46	203918 04/08/99	Lambda ZAP II	2524	1554	1	1554	200	5121	1	43	44	50
2515	HUKA128	203979 04/29/99	Lambda ZAP II	2525	1700	1	1700	61	5122	1	15	16	32
2516	HUKAO50	203959 04/26/99	Lambda ZAP II	2526	2058	730	2058	815	5123	1			6
2517	HUKCS86	203959 04/26/99	Lambda ZAP II	2527	1781	32	1773	201	5124	1	20	21	232
2518	HUKCS86	203959 04/26/99	Lambda ZAP II	2528	1781	32	1773	201	5125	1	20	21	232
2519	HUKEA22	203959 04/26/99	Lambda ZAP II	2529	575	1	575	63	5126	1	17	18	36
2520	HUKEL79	203959 04/26/99	Lambda ZAP II	2530	646	1	646	94	5127	1	20	21	28
2521	HUKEX37	203959 04/26/99	Lambda ZAP II	2531	529	1	529	220	5128	1	18	19	23

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2522	HUKFC71	203979 04/29/99	Lambda ZAP II	2532	963	1	963	260	260	5129	1			9
2522	HUKFC71	203979 04/29/99	Lambda ZAP II	2607	1177	1	973	261	261	5204	1			9
2523	HUKFV37	203979 04/29/99	Lambda ZAP II	2533	1574	20	1531	49	49	5130	1	45	46	224
2524	HUKFY09	203979 04/29/99	Lambda ZAP II	2534	2735	1	957	237	237	5131	1			13
2525	HUNAL39	203918 04/08/99	pBluescript SK-	2535	1121	1	1121	830	830	5132	1			10
2526	HUSAO04	PTA-791 09/27/99	Lambda ZAP II	2536	1971	24	1664		3	5133	1	1	2	486
2527	HUSAO04	PTA-791 09/27/99	Lambda ZAP II	2537	1971	24	1664		297	5134	1	15	16	388
2528	HUSCA09	PTA-181 06/07/99	Lambda ZAP II	2538	1986	1	1986		101	5135	1	38	39	510
2529	HUSCJ01	203918 04/08/99	Lambda ZAP II	2539	1340	1	1340	205	205	5136	1			16
2530	HUSGB23	203959 04/26/99	pSport1	2540	719	1	718	168	168	5137	1	19	20	37

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Signal	NT of First AA of Signal	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2531	HUSGJ09	203918 04/08/99	pSport1	2541	688	1	688	191	191	5138	1	23	24	32
2532	HUSGQ57	203918 04/08/99	pSport1	2542	1940	1	1940	73	73	5139	1			34
2533	HUSGY15	203918 04/08/99	pSport1	2543	1526	299	1526	643	643	5140	1			22
2534	HUSHD41	PTA-181 06/07/99	Lambda ZAP II	2544	2576	1	2576	227	227	5141	1	19	20	72
2535	HUSHK65	203979 04/29/99	Lambda ZAP II	2545	6705	768	2758	812	812	5142	1	21	22	487
2536	HUSIK45	PTA-181 06/07/99	pSport1	2546	1415	1	1415	204	204	5143	1	20	21	33
2537	HUSIO57	PTA-793 09/27/99	pSport1	2547	925	1	925		177	5144	1	20	21	41
2538	HUSIP17	203918 04/08/99	pSport1	2548	699	1	699		301	5145	1	22	23	26
2539	HUSIR70	203959 04/26/99	pSport1	2549	1236	1	1236	281	281	5146	1	23	24	26
2540	HUSXP50	203918 04/08/99	pSport1	2550	413	1	413	42	42	5147	1	29	30	52

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2541	HUSXY93	203918 04/08/99	pSport1	2551	639	1	639	148	148	5148	1			19
2542	HUSYG26	203959 04/26/99	pSport1	2552	744	363	744	421	421	5149	1	28	29	69
2543	HUVQC68	203918 04/08/99	Uni-ZAP XR	2553	678	1	678	265	265	5150	1	17	18	25
2544	HUVDG58	PTA-1838 05/09/00	Uni-ZAP XR	2554	2785	1	2785	27	27	5151	1	28	29	38
2545	HUVEG53	203959 04/26/99	Uni-ZAP XR	2555	2163	151	2163		366	5152	1	12	13	22
2546	HWAAH11	203959 04/26/99	pCMVSPORT 3.0	2556	1278	1	1278	479	479	5153	1	39	40	92
2547	HWAAQ28	203959 04/26/99	pCMVSPORT 3.0	2557	1649	34	1649	443	443	5154	1	26	27	87
2548	HWAAV60	203918 04/08/99	pCMVSPORT 3.0	2558	1727	464	1727	488	488	5155	1			25
2549	HWABR43	203959 04/26/99	pCMVSPORT 3.0	2559	2314	1	2314	258	258	5156	1	15	16	31
2550	HWACH06	203959 04/26/99	pCMVSPORT 3.0	2560	1161	1	1161	318	318	5157	1			15

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2551	HWACZ33	203959 04/26/99	pCMVSPORT 3.0	2561	1462	1	1462	110	5158	1	22	23	62
2552	HWADV90	PTA-1838 05/09/00	pCMVSPORT 3.0	2562	2393	1	2393	314	5159	1			22
2553	HWAEBS2	PTA-792 09/27/99	pCMVSPORT 3.0	2563	2193	1	2193	212	5160	1	23	24	405
2554	HWBAK71	PTA-181 06/07/99	pCMVSPORT 3.0	2564	372	1	372	260	5161	1	15	16	17
2555	HWBBU75	203979 04/29/99	pCMVSPORT 3.0	2565	2731	623	2731	783	5162	1	22	23	51
2556	HWBCN81	PTA-181 06/07/99	pCMVSPORT 3.0	2566	2783	1	2783	615	5163	1	32	33	60
2557	HWBCP16	203959 04/26/99	pCMVSPORT 3.0	2567	625	1	625	140	5164	1	36	37	54
2558	HWBCX93	PTA-181 06/07/99	pCMVSPORT 3.0	2568	831	1	831	261	5165	1	28	29	30
2559	HWBEF34	203979 04/29/99	pCMVSPORT 3.0	2569	1468	1	1468	134	5166	1	31	32	44

Gene No.	cDNA Clone ID	ATCC Deposit No.Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2560	HWFB23	PTA-181 06/07/99	pBluescript SK-	2570	1411	1	1411	40	5167	1	29	30	38
2561	HWFB140	203918 04/08/99	pBluescript SK-	2571	875	1	875	315	5168	1			17
2562	HWHG77	203959 04/26/99	pCMVSPORT 3.0	2572	1026	213	1026	660	5169	1	17	18	34
2563	HWHG09	203959 04/26/99	pCMVSPORT 3.0	2573	596	1	596	268	5170	1	23	24	61
2564	HWHA21	203959 04/26/99	pCMVSPORT 3.0	2574	695	1	695	213	5171	1	47	48	61
2565	HWHP44	203959 04/26/99	pCMVSPORT 3.0	2575	871	1	871	166	5172	1	28	29	40
2566	HWHR51	PTA-181 06/07/99	pCMVSPORT 3.0	2576	843	1	843		5173	1	20	21	59
2567	HWLAT50	203959 04/26/99	pSport1	2577	2973	2488	2932	2741	5174	1			11
2568	HWLBO67	203959 04/26/99	pSport1	2578	536	1	536	42	5175	1	28	29	39
2569	HWLGP26	203959 04/26/99	pSport1	2579	1898	1007	1835	1091	5176	1	23	24	71

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT 3' of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First of AA of Sig Pep	Last of AA of Sig Pep	First of AA of Secreted Portion	Last of AA of ORF
2570	HWLHO31	203959 04/26/99	pSport1	2580	1701	1	1701	183	5177	1			10
2571	HWLIL31	203959 04/26/99	pSport1	2581	787	1	787		531	5178	1	32	39
2572	HWLJN08	203959 04/26/99	pSport1	2582	1030	1	1030	594	594	5179	1	24	31
2573	HWLRE03	203959 04/26/99	pSport1	2583	2770	2287	2770	2526	2526	5180	1		20
2574	HWTAM38	203918 04/08/99	Uni-ZAP XR	2584	598	245	598	377	377	5181	1	18	74
2575	HWTAW58	203959 04/26/99	Uni-ZAP XR	2585	2306	1432	2306		1523	5182	1		13
2576	HWTTB42	203959 04/26/99	Uni-ZAP XR	2586	91	1	91		33	5183	1		10
2577	HWTCB75	PTA-181 06/07/99	Uni-ZAP XR	2587	699	1	699	228	228	5184	1	26	44
2578	HWTB125	203918 04/08/99	Uni-ZAP XR	2588	338	1	338	197	197	5185	1	22	33
2579	HWTB186	203959 04/26/99	Uni-ZAP XR	2589	2789	2179	2789	2270	2270	5186	1		38

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total Clone Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of First AA of Codon	5' NT of First AA of NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
2580	HWTBX66	203959 04/26/99	Uni-ZAP XR	2590	1145	1	1145	261	5187	1	11	12	271
2581	HYAAC74	203918 04/08/99	pCMVSPORT 3.0	2591	592	1	592	197	5188	1	18	19	38
2582	HYAAD61	PTA-1838 05/09/00	pCMVSPORT 3.0	2592	2230	1	2230	341	5189	1			18
2583	HYACC21	203959 04/26/99	pCMVSPORT 3.0	2593	1223	1	1223	461	5190	1	17	18	31
2584	HYBAP75	PTA-181 06/07/99	Uni-ZAP XR	2594	1168	1	1168	166	5191	1	26	27	37
2585	HYBAQ24	PTA-1838 05/09/00	Uni-ZAP XR	2595	1193	1	1193	261	5192	1	33	34	68
2586	HYBAW56	203918 04/08/99	Uni-ZAP XR	2596	584	1	584	116	5193	1	18	19	50
2587	HYBBD81	203918 04/08/99	Uni-ZAP XR	2597	896	1	896	151	5194	1	11	12	22

TABLE 1B

Gene No.	Clone ID No.: Z	Contig ID:	SEQ ID NO: X	ORF (From-To)	AA SEQ ID NO: Y	Predicted Epitopes	Tissue Distribution Library code: count (see Table 4 for Library Codes)	Cytologic Band	ONIM Disease Reference(s):
1	H2CBD20	570796	11	27 - 80	2608	Gln-1 to Asp-6.	T0110: 1 and L0776: 1.	Sp22-q21.2	148370, 238600,
2	H2CBH91	826669	12	309 - 431	2609	Met-1 to Lys-12.	AR089: 3, AR316: 3, AR060: 3 L0764: 3, L0746: 2, L0749: 2, L0777: 2, S0114: 1, H0661: 1, H0497: 1, H0036: 1, T0110: 1, H0412: 1, L0520: 1, L0631: 1, L0796: 1, L0873: 1, L0766: 1, L0806: 1, L0776: 1, L0789: 1, L0666: 1, L0742: 1, L0745: 1, L0731: 1, L0485: 1 and L0608: 1.		238600, 238600, 60143, 601385, 602629
3	H2LBA54	684290	13	386 - 403	2610		L0766: 5, L0439: 5, L0803: 4, L0666: 4, H0556: 3, S0360: 3, H0391: 3, L0809: 3, L0754: 3, L0750: 3, L0777: 3, H0392: 2, H0553: 2, L0771: 2, L0662: 2, L0794: 2, L0806: 2, L0748: 2, L0749: 2, L0779: 2, L0759: 2, H0707: 2, S0026: 2, H0171: 1, H0450: 1, H0125: 1, S0376: 1, H0637: 1, H0580: 1, S0045: 1, S0222: 1, H0431: 1, H0497: 1, H0333: 1, H0013: 1, H0635: 1, H0599: 1, H0581: 1, T0115: 1, L0471: 1, H0051: 1, S0022: 1, L0142: 1, H0674: 1, H0038: 1, H0634: 1, H0616: 1, S0386: 1, H0625: 1, H0646: 1, L0804: 1, L0774: 1, L0805: 1, L0655: 1, L0559: 1, L0526: 1, L0790: 1, L0663: 1, H0519: 1, H0593: 1, H0684: 1, H0659: 1, H0670: 1, L0755: 1, L0731: 1, H0445: 1.	6q21	120110, 121014, 601666, 602772

4	H2LBB09	658667	14	197 - 307	2611	Lys-28 to Thr-33.	1, L0605: 1, L0599: 1, L0608: 1, L0601: 1, H0543: 1 and S0424: 1. AR089: 5, AR316: 5, AR060: 4 L0773: 7, S0410: 6, L0803: 6, L0752: 5, S0358: 4, L0766: 4, L0439: 4, L0646: 3, L0659: 3, S0442: 2, S0408: 2, S0003: 2, H0038: 2, S0440: 2, L0774: 2, L0655: 2, L0666: 2, L0664: 2, L0665: 2, H0521: 2, L0748: 2, L0740: 2, L0777: 2, L0731: 2, L0758: 2, L0362: 2, H0170: 1, S0116: 1, H0402: 1, S0444: 1, S0360: 1, S0476: 1, L0717: 1, H0574: 1, H0632: 1, T0109: 1, H0156: 1, H0590: 1, S0346: 1, H0052: 1, T0115: 1, H0597: 1, H0050: 1, S0051: 1, H0622: 1, L0483: 1, H0553: 1, H0032: 1, H0412: 1, L0331: 1, H0529: 1, L0761: 1, L0772: 1, L0794: 1, L0807: 1, S0374: 1, H0435: 1, H0539: 1, H0518: 1, S0152: 1, S0392: 1, S0436: 1, H0653: 1, H0423: 1 and H0506: 1. AR089: 5, AR316: 5, AR060: 4 L0773: 7, S0410: 6, L0803: 6, L0752: 5, S0358: 4, L0766: 4, L0439: 4, L0646: 3, L0659: 3, S0442: 2, S0408: 2, S0003: 2, H0038: 2, S0440: 2, L0774: 2, L0655: 2, L0666: 2, L0664: 2, L0665: 2, H0521: 2, L0748: 2, L0740: 2, L0777: 2, L0731: 2, L0758: 2, L0362: 2, H0170: 1, S0116: 1, H0402: 1, S0444: 1, S0360: 1, S0476: 1, L0717: 1, H0574: 1, H0632: 1, T0109: 1, H0156: 1, H0590: 1, S0346: 1, H0052: 1, T0115: 1, H0597: 1, H0050: 1, S0051: 1, H0622: 1, L0483: 1, H0553: 1, H0032: 1, H0412: 1, L0331: 1, H0529: 1, L0761: 1, L0772: 1, L0794: 1, L0807: 1, S0374: 1, H0435: 1, H0539: 1, H0518: 1, S0152: 1, S0392: 1, S0436: 1, H0653: 1, H0423: 1 and H0506: 1.	14q21.1-q21.3	182600, 232700, 602086
5	H2LBB09	830636	15	236 - 346	2612	Lys-28 to Thr-33.	AR089: 5, AR316: 5, AR060: 4 L0773: 7, S0410: 6, L0803: 6, L0752: 5, S0358: 4, L0766: 4, L0439: 4, L0646: 3, L0659: 3, S0442: 2, S0408: 2, S0003: 2, H0038: 2, S0440: 2, L0774: 2, L0655: 2, L0666: 2, L0664: 2, L0665: 2, H0521: 2, L0748: 2, L0740: 2, L0777: 2, L0731: 2, L0758: 2, L0362: 2, H0170: 1, S0116: 1, H0402: 1, S0444: 1, S0360: 1, S0476: 1, L0717: 1, H0574: 1, H0632: 1, T0109: 1, H0156: 1, H0590: 1, S0346: 1, H0052: 1, T0115: 1, H0597: 1, H0050: 1, S0051: 1, H0622: 1, L0483: 1, H0553: 1, H0032: 1, H0412: 1, L0331: 1, H0529: 1, L0761: 1, L0772: 1, L0794: 1, L0807: 1, S0374: 1, H0435: 1, H0539: 1, H0518: 1, S0152: 1, S0392: 1, S0436: 1, H0653: 1, H0423: 1 and H0506: 1.	14q21.1-q21.3	182600, 232700, 602086

6	H2MAC63	610045	16	172 - 270	2613	<p>1, H0574: 1, H0632: 1, T0109: 1, H0156: 1, H0590: 1, S0346: 1, H0052: 1, T0115: 1, H0597: 1, H0050: 1, S0051: 1, H0622: 1, L0483: 1, H0553: 1, H0032: 1, H0412: 1, L0351: 1, H0529: 1, L0761: 1, L0772: 1, L0794: 1, L0807: 1, S0374: 1, H0435: 1, H0539: 1, H0518: 1, S0152: 1, S0392: 1, S0436: 1, H0653: 1, H0423: 1 and H0506: 1.</p>		<p>1, H0574: 1, H0632: 1, T0109: 1, H0156: 1, H0590: 1, S0346: 1, H0052: 1, T0115: 1, H0597: 1, H0050: 1, S0051: 1, H0622: 1, L0483: 1, H0553: 1, H0032: 1, H0412: 1, L0351: 1, H0529: 1, L0761: 1, L0772: 1, L0794: 1, L0807: 1, S0374: 1, H0435: 1, H0539: 1, H0518: 1, S0152: 1, S0392: 1, S0436: 1, H0653: 1, H0423: 1 and H0506: 1.</p>
7	H2MBA76	826161	17	717 - 1055	2614	<p>AR270: 8, AR061: 7, AR060: 5, AR238: 5, AR269: 5, AR268: 5, AR182: 5, AR286: 5, AR296: 4, AR290: 4, AR233: 4, AR237: 4, AR293: 4, AR253: 4, AR291: 4, AR183: 4, AR226: 4, AR298: 4, AR186: 3, AR316: 3, AR232: 3, AR266: 3, AR289: 3, AR039: 3, AR089: 3, AR299: 3, AR292: 2, AR205: 2, AR240: 2, AR267: 2, AR033: 2, AR285: 2, AR247: 1, AR284: 1, AR104: 1, AR313: 1, AR315: 1, AR179: 1, AR281: 1, AR096: 1, AR277: 1, AR295: 1, H0618: 5, H0584: 4, H0617: 4, L0775: 3, L0748: 3, L0758: 3, H0657: 2, S0250: 2, L0764: 2, L0794: 2, L0381: 2, H0556: 2.</p>	11	

8	H2MB760	695714	18	320 - 442	2615			1, S0376: 1, H0351: 1, H0609: 1, H0386: 1, T0109: 1, H0046: 1, H0050: 1, H0012: 1, H0620: 1, H0594: 1, H0687: 1, H0412: 1, H0100: 1, S0448: 1, S0426: 1, L0770: 1, L0769: 1, L0772: 1, L0771: 1, L0662: 1, L0766: 1, L0378: 1, L0367: 1, L0663: 1, H0672: 1, S0378: 1, S0152: 1, H0822: 1, H0555: 1, L0777: 1, S0276: 1 and H0423: 1. L0748: 22, H0616: 6, L0766: 5, L0439: 4, L0731: 4, L0471: 3, S0214: 3, L0665: 3, H0134: 3, S0027: 3, L0777: 3, L0757: 3, L0588: 3, H0556: 2, S0116: 2, H0341: 2, S0212: 2, H0024: 2, S0003: 2, H0038: 2, L0769: 2, L0389: 2, L0809: 2, L0666: 2, L0745: 2, L0749: 2, L0750: 2, L0755: 2, L0758: 2, L0759: 2, H0445: 2, L0594: 2, L0362: 2, H0220: 1, H0686: 1, T0049: 1, H0176: 1, H0125: 1, S0376: 1, S0444: 1, H0580: 1, H0208: 1, S0300: 1, S0222: 1, H0574: 1, H0486: 1, T0040: 1, T0109: 1, H0427: 1, H0575: 1, H0274: 1, H0581: 1, H0052: 1, H0596: 1, H0597: 1, H0546: 1, S0362: 1, H0373: 1, H0428: 1, S0364: 1, H0551: 1, T0067: 1, H0494: 1, H0130: 1, L0763: 1, L0770: 1, L0646: 1, L0800: 1, L0643: 1, L0645: 1, L0767: 1, L0768: 1, L0774: 1, L0775: 1, L0806: 1, L0659: 1, L0517: 1, L0647: 1, L0789: 1, L0663: 1, L0664: 1, S0374: 1, H0520: 1, H0547: 1, H0519: 1, H0593: 1, H0659:	Sq11.2-q13.1	126060, 143200, 143200, 181510, 214300, 253200, 600354, 600354, 600354, 600887
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9	H6BSM88	609832	19	95 - 217	2616				1, H0658: 1, H0660: 1, H0648: 1, H0710: 1, S0152: 1, S0044: 1, H0555: 1, H0436: 1, H0478: 1, S3014: 1, S0032: 1, L0744: 1, L0740: 1, L0608: 1, S0011: 1, H0543: 1 and L0465: 1. L0794: 5, L0659: 4, L0758: 4, H0616: 2, L0662: 2, L0766: 2, L0804: 2, L0777: 2, L0759: 2, S6024: 1, H0656: 1, H0341: 1, S0356: 1, S0358: 1, H0440: 1, S0222: 1, H0497: 1, H0492: 1, H0318: 1, H0052: 1, H0046: 1, H0457: 1, H0123: 1, H0266: 1, H0124: 1, H0316: 1, H0038: 1, H0040: 1, H0551: 1, L0640: 1, L0637: 1, L0761: 1, L0375: 1, L0655: 1, L0783: 1, L0789: 1, H0547: 1, H0648: 1, H0672: 1, L0740: 1, H0445: 1, L0681: 1, S0276: 1 and S0196: 1.
10	H6EEA48	847111	20	196 - 936	2617	Pro-21 to Trp-27, Thr-33 to Pro-39, Pro-62 to Trp-78, Pro-86 to Phe-91, Thr-109 to Ser-114.			AR202: 94, AR194: 93, AR246: 89, AR206: 80, AR039: 71, AR281: 70, AR205: 67, AR198: 60, AR243: 59, AR241: 59, AR315: 58, AR244: 58, AR204: 56, AR310: 46, AR192: 46, AR053: 45, AR280: 44, AR283: 44, AR282: 43, AR266: 43, AR274: 43, AR314: 42, AR289: 41, AR265: 40, AR271: 40, AR033: 40, AR263: 40, AR299: 39, AR213: 38, AR284: 38, AR052: 38, AR096: 38, AR275: 38, AR295: 37, AR104: 37, AR273: 36, AR240: 35, AR186: 35.

050037 050038 050039 050040 050041 050042 050043 050044 050045 050046 050047 050048 050049 050050 050051 050052 050053 050054 050055 050056 050057 050058 050059 050060 050061 050062 050063 050064 050065 050066 050067 050068 050069 050070 050071 050072 050073 050074 050075 050076 050077 050078 050079 050080 050081 050082 050083 050084 050085 050086 050087 050088 050089 050090 050091 050092 050093 050094 050095 050096 050097 050098 050099 050100 050101 050102 050103 050104 050105 050106 050107 050108 050109 050110 050111 050112 050113 050114 050115 050116 050117 050118 050119 050120 050121 050122 050123 050124 050125 050126 050127 050128 050129 050130 050131 050132 050133 050134 050135 050136 050137 050138 050139 050140 050141 050142 050143 050144 050145 050146 050147 050148 050149 050150 050151 050152 050153 050154 050155 050156 050157 050158 050159 050160 050161 050162 050163 050164 050165 050166 050167 050168 050169 050170 050171 050172 050173 050174 050175 050176 050177 050178 050179 050180 050181 050182 050183 050184 050185 050186 050187 050188 050189 050190 050191 050192 050193 050194 050195 050196 050197 050198 050199 050200 050201 050202 050203 050204 050205 050206 050207 050208 050209 050210 050211 050212 050213 050214 050215 050216 050217 050218 050219 050220 050221 050222 050223 050224 050225 050226 050227 050228 050229 050230 050231 050232 050233 050234 050235 050236 050237 050238 050239 050240 050241 050242 050243 050244 050245 050246 050247 050248 050249 050250 050251 050252 050253 050254 050255 050256 050257 050258 050259 050260 050261 050262 050263 050264 050265 050266 050267 050268 050269 050270 050271 050272 050273 050274 050275 050276 050277 050278 050279 050280 050281 050282 050283 050284 050285 050286 050287 050288 050289 050290 050291 050292 050293 050294 050295 050296 050297 050298 050299 050300 050301 050302 050303 050304 050305 050306 050307 050308 050309 050310 050311 050312 050313 050314 050315 050316 050317 050318 050319 050320 050321 050322 050323 050324 050325 050326 050327 050328 050329 050330 050331 050332 050333 050334 050335 050336 050337 050338 050339 050340 050341 050342 050343 050344 050345 050346 050347 050348 050349 050350 050351 050352 050353 050354 050355 050356 050357 050358 050359 050360 050361 050362 050363 050364 050365 050366 050367 050368 050369 050370 050371 050372 050373 050374 050375 050376 050377 050378 050379 050380 050381 050382 050383 050384 050385 050386 050387 050388 050389 050390 050391 050392 050393 050394 050395 050396 050397 050398 050399 050400 050401 050402 050403 050404 050405 050406 050407 050408 050409 050410 050411 050412 050413 050414 050415 050416 050417 050418 050419 050420 050421 050422 050423 050424 050425 050426 050427 050428 050429 050430 050431 050432 050433 050434 050435 050436 050437 050438 050439 050440 050441 050442 050443 050444 050445 050446 050447 050448 050449 050450 050451 050452 050453 050454 050455 050456 050457 050458 050459 050460 050461 050462 050463 050464 050465 050466 050467 050468 050469 050470 050471 050472 050473 050474 050475 050476 050477 050478 050479 050480 050481 050482 050483 050484 050485 050486 050487 050488 050489 050490 050491 050492 050493 050494 050495 050496 050497 050498 050499 050500 050501 050502 050503 050504 050505 050506 050507 050508 050509 050510 050511 050512 050513 050514 050515 050516 050517 050518 050519 050520 050521 050522 050523 050524 050525 050526 050527 050528 050529 050530 050531 050532 050533 050534 050535 050536 050537 050538 050539 050540 050541 050542 050543 050544 050545 050546 050547 050548 050549 050550 050551 050552 050553 050554 050555 050556 050557 050558 050559 050560 050561 050562 050563 050564 050565 050566 050567 050568 050569 050570 050571 050572 050573 050574 050575 050576 050577 050578 050579 050580 050581 050582 050583 050584 050585 050586 050587 050588 050589 050590 050591 050592 050593 050594 050595 050596 050597 050598 050599 050600 050601 050602 050603 050604 050605 050606 050607 050608 050609 050610 050611 050612 050613 050614 050615 050616 050617 050618 050619 050620 050621

AR300: 34, AR277: 34, AR312: 34, AR309: 34, AR247: 34, AR055: 33, AR285: 32, AR232: 31, AR268: 30, AR313: 29, AR270: 29, AR291: 29, AR269: 28, AR183: 28, AR061: 28, AR177: 28, AR251: 28, AR175: 27, AR292: 26, AR296: 26, AR298: 25, AR267: 25, AR286: 24, AR238: 24, AR227: 24, AR185: 24, AR316: 23, AR234: 23, AR182: 23, AR229: 23, AR249: 22, AR231: 22, AR238: 22, AR256: 21, AR219: 21, AR089: 21, AR226: 20, AR218: 20, AR290: 20, AR294: 19, AR293: 19, AR259: 19, AR248: 19, AR184: 19, AR253: 18, AR237: 18, AR233: 16, AR060: 13, AR179: 11 H0529: 8, L0794: 5, S0424: 4, H0659: 3, H0083: 3, L0769: 3, L0809: 3, L0748: 3, L0759: 3, S0192: 3, H0341: 2, H0587: 2, H0266: 2, H0286: 2, H0623: 2, S0422: 2, L0761: 2, L0783: 2, L0565: 2, L0745: 2, L0756: 2, L0777: 2, H0665: 2, H0739: 1, H0265: 1, H0685: 1, H0657: 1, H0484: 1, S0420: 1, S0358: 1, H0592: 1, H0013: 1, H0427: 1, L0021: 1, S0474: 1, H0581: 1, H0597: 1, H0546: 1, H0046: 1, H0086: 1, H0024: 1, H0604: 1, H0181: 1, H0272: 1, S0438:

11	H6EN71	829201	21	1434 - 1517	2618		1, H0647: 1, S0144: 1, L0639: 1, L0372: 1, L0800: 1, L0644: 1, L0766: 1, L0803: 1, L0382: 1, L0787: 1, L0788: 1, L0663: 1, S0374: 1, H0547: 1, H0593: 1, H0521: 1, H0522: 1, S014: 1, S0027: 1, L0740: 1, L0751: 1, L0746: 1, L0749: 1, L0779: 1, L0757: 1 and S0436: 1.
							L0766: 22, L0776: 17, L0439: 17, L0747: 16, L0752: 16, L0770: 14, L0754: 14, L0438: 12, L0750: 11, L0744: 10, L0769: 9, L0748: 9, L0759: 9, L0774: 8, L0731: 8, L0601: 8, L0764: 7, L0777: 7, L0755: 7, L0757: 7, H0585: 6, L0805: 6, L0749: 6, H0370: 5, L0803: 5, L0666: 5, L0740: 5, S0360: 4, L0751: 4, L0738: 4, H0556: 3, H0716: 3, H0295: 3, H0663: 3, H0618: 3, H0620: 3, S0022: 3, H0673: 3, H0412: 3, H0100: 3, L0768: 3, L0794: 3, L0639: 3, L0741: 3, L0745: 3, L0593: 3, H0685: 2, S0420: 2, S0007: 2, S0476: 2, S0222: 2, H0188: 2, H0622: 2, T0006: 2, S0366: 2, H0135: 2, H0038: 2, H0616: 2, H0494: 2, S0440: 2, H0509: 2, S0344: 2, L0763: 2, L0639: 2, L0772: 2, L0651: 2, L0806: 2, L0783: 2, L0809: 2, L0664: 2, S0406: 2, L0756: 2, L0779: 2, L0753: 2, L0588: 2, L0605: 2, L0592: 2, L0594: 2, L0362: 2, L0603: 2, S0276: 2, H0624: 1, H0686: 1, S0040: 1, H0713: 1, T0049: 1, S0116: 1.

13	H6EU40	757048	23	175 - 318	2620		<p>2, L0375: 2, L0776: 2, L0666: 2, H0648: 2, H0672: 2, S3014; 2, L0741: 2, L0740: 2, L0731: 2, T0002: 1, S0040: 1, S6024; 1, S0116: 1, H0664: 1, S0418; 1, S0360: 1, S0046: 1, L0717; 1, S0616: 1, H0331: 1, H0632; 1, H0559: 1, H0486: 1, H0013; 1, S0010: 1, H0318: 1, S0049; 1, H0434: 1, L0041: 1, L0471; 1, S0362: 1, H0051: 1, S0388; 1, S0628: 1, H0266: 1, H0687; 1, H0615: 1, S0364: 1, H0551; 1, H0272: 1, S0038: 1, H0100; 1, L0351: 1, H0560: 1, S0438; 1, H0509: 1, H0652: 1, S0142; 1, S0344: 1, S0426: 1, L0769; 1, L0638: 1, L0667: 1, L0373; 1, L0372: 1, L0764: 1, L0771; 1, L0648: 1, L0521: 1, L0363; 1, L0803: 1, L0650: 1, L0775; 1, L0788: 1, L0664: 1, H0660; 1, L0743: 1, L0753: 1, L0480; 1, L0595: 1 and S0460: 1;</p>	11cen-q12.3
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14	H7TDB54	845956	24	86 - 229	2621	2. H0690: 2. H0555: 2. L0743: 2. L0755: 2. L0757: 2. L0759: 2. S0436: 2. L0588: 2. H0352: 2. H0624: 1. H0685: 1. H0295: 1. S0134: 1. H0583: 1. H0656: 1. H0341: 1. S0212: 1. H0484: 1. S0418: 1. S0356: 1. S0442: 1. H0339: 1. H0619: 1. S0278: 1. H0257: 1. H0069: 1. H0327: 1. H0023: 1. S0051: 1. T0010: 1. H0031: 1. H0181: 1. H0032: 1. H0169: 1. S0364: 1. H0135: 1. H0163: 1. H0090: 1. H0063: 1. H0087: 1. H0551: 1. H0264: 1. H0488: 1. H0623: 1. H0100: 1. S0438: 1. S0440: 1. L0369: 1. L0770: 1. L0769: 1. L5565: 1. L0761: 1. L0667: 1. L0772: 1. L0641: 1. L0644: 1. L0764: 1. L0773: 1. L0363: 1. L0768: 1. L0794: 1. L0766: 1. L0381: 1. L0803: 1. L0774: 1. L0375: 1. L0806: 1. L0512: 1. L0517: 1. L0666: 1. H0144: 1. H0702: 1. S0148: 1. L0352: 1. H0519: 1. H0593: 1. H0435: 1. H0658: 1. H0539: 1. S0406: 1. H0478: 1. H0631: 1. S0028: 1. S0206: 1. L0744: 1. L0740: 1. L0745: 1. L0749: 1. L0750: 1. L0758: 1. H0445: 1. S0434: 1. L0594: 1. S0194: 1. H0542: 1 and H0423: 1.	L0740: 8. L0748: 7. L0749: 6. L0805: 4. L0438: 4. S0426: 3. L0766: 3. L0752: 3. H0657: 2. S0474: 2. L0804: 2. L0659: 2. L0809: 2. H0521: 2. S3014: 2. L0439: 2. L0754: 2. L0779: 2. L0592: 2. L0608: 2. S0202:
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15	H7TMB95	597427	25	275 - 352	2622				1, T0002: 1, S040: 1, S0444: 1, S0360: 1, T0008: 1, H0329: 1, H0592: 1, H0486: 1, L0021: 1, H0123: 1, H0373: 1, H0266: 1, H0188: 1, S0003: 1, S0214: 1, H0553: 1, H0090: 1, H0591: 1, H0551: 1, S0438: 1, L0772: 1, L0372: 1, L0662: 1, L0794: 1, L5364: 1, L0803: 1, L0774: 1, L0655: 1, L0527: 1, L0783: 1, L0790: 1, L0666: 1, H0658: 1, H0522: 1, H0696: 1, S0406: 1, S0037: 1, L0751: 1, L0745: 1, L0753: 1, H0445: 1, S0026: 1 and H0352: 1.	
16	HAAAT06	897933	26	329 - 643	2623				S0184: 2, AR053: 21, AR213: 20, AR240: 19, AR096: 18, AR052: 16, AR183: 15, AR243: 15, AR312: 14, AR313: 12, AR270: 11, AR265: 11, AR246: 11, AR241: 11, AR309: 10, AR282: 10, AR247: 10, AR268: 10, AR290: 9, AR055: 9, AR269: 9, AR310: 9, AR274: 9, AR263: 8, AR244: 8, AR273: 8, AR184: 7, AR271: 6, AR275: 6, AR182: 5, AR033: 5, AR267: 5, AR192: 5, AR284: 5, AR198: 4, AR300: 4, AR299: 4, AR175: 4, AR206: 4, AR229: 4, AR186: 4, AR104: 4, AR316: 4, AR039: 4, AR238: 3, AR204: 3, AR277: 3, AR237: 3, AR234: 3,	

17	HACAD42	634372	27	683 - 742	2624	Gly-8 to Ala-13.	<p>1, H0354: 1, H0271: 1, H0292: 1, H0284: 1, H0286: 1, H0028: 1, H0615: 1, H0622: 1, T0023: 1, H0553: 1, H0616: 1, H0413: 1, L0351: 1, S0438: 1, H0646: 1, S0208: 1, L0796: 1, L0667: 1, L0644: 1, L0764: 1, L0768: 1, L0654: 1, L0655: 1, L0606: 1, L0634: 1, L0659: 1, L0809: 1, L0367: 1, L0791: 1, L0793: 1, L0666: 1, L0438: 1, H0520: 1, H0519: 1, H0689: 1, H0684: 1, H0666: 1, H0672: 1, S0378: 1, H0631: 1, L0741: 1, L0756: 1, S0260: 1, L0599: 1, L0595: 1, S0242: 1 and H0542: 1.</p> <p>AR060: 6, AR316: 4, AR089: 3</p> <p>L0769: 3, L0741: 3, L0756: 3, L0806: 2, L0438: 2, S6022: 1, L0520: 1, L0770: 1, L0792: 1, H0144: 1 and S0260: 1.</p>
18	HACB11	797625	28	1060 - 1311	2625	Ser-16 to Glu-31.	<p>H0494: 15, L0747: 11, H0586: 10, H0587: 7, L0809: 5, H0600: 4, L0518: 4, L0653: 3, L0743: 3, H0592: 2, H0264: 2, L0648: 2, L0517: 2, S0328: 2, L0744: 2, H0295: 1, S0356: 1, S0132: 1, H0549: 1, S0280: 1, L0021: 1, L0041: 1, H0050: 1, L0455: 1, H0087: 1, H0379: 1, H0477: 1, S0448: 1, L0764: 1, L0806: 1, L0805: 1, L0783: 1, L0789: 1, L0790: 1, S0350: 1, H0696: 1, S0432: 1, L0731: 1, S0384: 1 and S0456: 1.</p>
19	HACBS86	603946	29	654 - 968	2626		<p>AR296: 53, AR269: 43, AR291: 30, AR268: 30, AR298: 30, AR285: 30, AR253: 28, AR192: 28,</p>

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[illegible]

20	HACBT91	789939	30	329 - 508	2627	Ser-49 to Lys-59.	L0766: 14, L0740: 7, L0761: 6, L0789: 6, L0776: 5, L0779: 5, L0769: 4, L0803: 4, L0806: 4, S0328: 3, L0439: 3, L0754: 3, L0750: 3, L0777: 3, L0731: 3, L0759: 3, S0116: 2, H0486: 2, H0446: 2, L0455: 2, L0772: 2, L0764: 2, L0805: 2, L0665: 2, L0438: 2, H0521: 2, S0404: 2, L0752: 2, L0758: 2, L0596: 2, L0599: 2, L0593: 2, H0556: 1, L0785: 1, S0110: 1, S0356: 1, S0444: 1, S0360: 1, H0637: 1, S0278: 1, H0013: 1, S0280: 1, H0706: 1, H0563: 1, H0083: 1, S0312: 1, S0314: 1, S0003: 1, H0553: 1, H0628: 1, H0634: 1, H0102: 1, H0561: 1, L0796: 1, L0771: 1, L0533: 1, L0774: 1, L0775: 1, L0657: 1, L0792: 1, L0663: 1, H0699: 1, H0539: 1, H0436: 1, H0627: 1, L0747: 1, L0786: 1, H0445: 1, H0343: 1, S0026: 1, H0543: 1 and H0352: 1.				
							AR089: 18, AR316: 17, AR060: 17 S0410: 14, L0743: 6, L0665: 5, H0521: 3, H0341: 2, H0069: 2, H0271: 2, S0440: 2, L0761: 2, S0406: 2, L0747: 2, L0756: 2, H0664: 1, S0356: 1, H0734: 1, H0619: 1, H0586: 1, H0635: 1, S0280: 1, T0048: 1, H0581: 1, H0105: 1, H0264: 1, H0494: 1, H0641: 1, H0646: 1, L0770: 1, L0637: 1, L0800: 1, L0773: 1, L0648: 1, L0662: 1, L0768: 1, L0766: 1, L0649: 1, L0375: 1, L0784: 1, L0806: 1, L0655: 1.				

21	HACBZ73	832528	31	105 - 215	2628			1, L0809; 1, H0435; 1, H0672; 1, H0555; 1, L0749; 1, L0750; 1, H0445; 1, S0434; 1 and H0506; 1.	19q13.4	134790, 191044, 600040, 600138
22	HACCK29	561629	32	205 - 294	2629			AR060: 10, AR316; 9, AR089; 8 H0617: 6, L0758; 6, L0770; 4, L0769; 4, L0662; 3, L0665; 3, L0439; 3, L0745; 3, L0755; 3, H0424; 2, L0748; 2, L0751; 2, L0777; 2, L0757; 2, S0356; 1, H0586; 1, S0280; 1, S0049; 1, H0150; 1, H0051; 1, T0010; 1, H0083; 1, H0028; 1, T0006; 1, H0181; 1, H0038; 1, L0763; 1, L0638; 1, L0373; 1, L0646; 1, L0645; 1, L0764; 1, L0771; 1, L0766; 1, L0804; 1, L0775; 1, L0378; 1, L0806; 1, L0776; 1, L0657; 1, L0659; 1, L0636; 1, L0664; 1, H0593; 1, H0689; 1, H0658; 1, L0746; 1, L0747; 1, L0749; 1, L0750; 1, L0752; 1, L0731; 1 and L0604; 1.		
23	HADAB60	745367	33	202 - 357	2630	Pro-45 to Gln-51.		AR060: 3, AR316; 2, AR089; 1 S0280: 1 and L0766; 1.		
24	HADAM31	604500	34	161 - 244	2631			AR089: 2, AR316; 1 L0744; 8, H0427; 4, H0163; 2, S0116; 1, H0021; 1, H0188; 1, S0366; 1, L0646; 1, L0663; 1, S0378; 1 and L0743; 1.		
25	HADCL19	599065	35	140 - 187	2632			H0427: 1		
26	HADCZ65	683227	36	240 - 251	2633			AR060: 180, AR316: 122, AR089: 57		
27	HADDC04	601695	37	254 - 352	2634			H0556; 2, S0218; 1, H0427; 1, L0752; 1 and H0136; 1.		
								H0427: 1, H0553; 1 and		

28	HADDP23	847115	38	238 - 357	2635		H0674: 1. H0427: 2, H0556: 1, S0001: 1, H0550: 1 and H0539: 1.		
29	HADDP51	853356	39	324 - 704	2636	Asp-70 to Lys-77, Pro-109 to Asp-121.	AR197: 148, AR195: 114, AR192: 92, AR207: 79, AR211: 76, AR245: 65, AR193: 64, AR313: 59, AR242: 56, AR246: 55, AR196: 54, AR188: 50, AR263: 50, AR191: 50, AR240: 50, AR089: 49, AR210: 48, AR271: 47, AR275: 47, AR164: 47, AR198: 46, AR165: 46, AR218: 46, AR219: 45, AR200: 44, AR272: 43, AR243: 43, AR205: 43, AR199: 42, AR166: 42, AR247: 42, AR175: 42, AR299: 41, AR274: 41, AR177: 40, AR189: 40, AR096: 40, AR264: 40, AR060: 40, AR312: 39, AR173: 39, AR316: 39, AR201: 38, AR161: 37, AR162: 37, AR039: 37, AR311: 37, AR163: 36, AR174: 35, AR300: 34, AR104: 34, AR212: 34, AR033: 33, AR282: 33, AR185: 32, AR269: 32, AR213: 31, AR190: 30, AR290: 30, AR238: 30, AR234: 30, AR053: 30, AR258: 29, AR262: 29, AR255: 29, AR295: 29, AR178: 28, AR277: 28, AR308: 27, AR181: 27, AR285: 26, AR183: 25, AR176: 25, AR204: 25,		

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ARI80: 25, AR226: 25, AR288: 25, AR309: 24, AR236: 24, AR182: 24, AR233: 24, AR232: 23, AR268: 23, AR179: 23, AR239: 23, AR203: 23, AR270: 23, AR293: 23, AR250: 22, AR257: 22, AR235: 21, AR237: 21, AR261: 21, AR229: 21, AR231: 20, AR297: 19, AR227: 19, AR294: 19, AR287: 19, AR296: 18, AR061: 18, AR253: 18, AR283: 17, AR254: 17, AR291: 16, AR267: 15, AR236: 15, AR228: 14, AR286: 13, AR230: 13, AR169: 13, AR266: 12, AR260: 12, AR055: 11, AR252: 10, AR289: 10, AR224: 9, AR168: 9, AR215: 9, AR171: 9, AR222: 8, AR172: 8, AR223: 8, AR170: 8, AR216: 7, AR214: 7, AR221: 7, AR225: 5, AR217: 5 L0747: 19, L0659: 9, L0764: 8, L0665: 8, H0539: 8, L0758: 8, H0617: 7, L0769: 7, L0731: 6, S0360: 5, S0358: 4, L0586: 4, H0427: 4, H0545: 4, S0344: 4, L0763: 4, L0776: 4, H0601: 3, S0420: 3, S0278: 3, H0549: 3, H0550: 3, S0142: 3, L0770: 3, L0648: 3, L0657: 3, L0783: 3, L0749: 3, L0591: 3, H0171: 2, H0294: 2, T0049: 2, H0657: 2, H0484: 2, H0255: 2, S0442:

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30	HADDR24	66477	40	230 - 337	2637			1, L0375: 1, L0651: 1, L0806: 1, L0652: 1, L0654: 1, L0655: 1, L0542: 1, L0518: 1, L0383: 1, L0809: 1, L0519: 1, L0529: 1, L0647: 1, L0666: 1, S0428: 1, H0144: 1, H0701: 1, L0565: 1, H0547: 1, H0519: 1, H0662: 1, H0684: 1, H0435: 1, S0328: 1, H0521: 1, H0522: 1, H0134: 1, H0436: 1, S0037: 1, L0744: 1, L0748: 1, L0756: 1, L0757: 1, S0031: 1, S0434: 1, L0588: 1, L0581: 1, S0026: 1, S0194: 1, H0543: 1, H0423: 1, H0422: 1 and H0293: 1.		
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31	HADET62	607615	41	154 - 249	2638			H0427: 2		
32	HADEY08	799507	42	201 - 248	2639	Met-1 to Trip-8.		L0748: 8, L0439: 8, L0769: 5, L0666: 5, L0637: 4, L0375: 4, L0779: 4, S0192: 4, H0486: 3, H0427: 3, T0041: 3, L0763: 3, L0770: 3, L0639: 3, L0747: 3, L0777: 3, L0758: 3, L0599: 3, H0309: 2, H0622: 2, L0794: 2, L0776: 2, L0783: 2, L0663: 2, L0438: 2, H0593: 2, L0602: 2, L0749: 2, L0750: 2, L0755: 2, L0731: 2, L0759: 2, L0588: 2, S0276: 2, H0265: 1, H0556: 1, S0024: 1, S0116: 1, H0663: 1, H0662: 1, H0402: 1, S0418: 1, S0354: 1, S0358: 1, S0360: 1, S0408: 1, H0637: 1, H0329: 1, S0468: 1, H0393: 1, L0717: 1, S0622: 1, H0587: 1, H0156: 1, H0318: 1, H0581: 1, H0052: 1		10cen-q26.11

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33	HADFY22	704584	43	169 - 267	2640	Gly-22 to Val-29.	H0427: 2			
34	HADFY22	861628	44	169 - 267	2641	Gly-22 to Val-29.	H0427: 3, H0497: 1, H0485: 1, H0036: 1, S0010: 1, H0553: 1, L0803: 1, H0701: 1, H0689: 1 and L0748: 1.			
35	HADFB84	668229	45	94 - 234	2642					
36	HADFD01	829979	46	377 - 577	2643	Ala-17 to Trp-23, Ser-46 to Thr-51.	H0427: 3, L0759: 3, H0409: 1, H0333: 1, H0013: 1, H0156: 1, L0105: 1, H0083: 1, H0032: 1, L0770: 1, L0796: 1, L0794: 1, L0766: 1, L0774: 1, L0776: 1, L0754: 1, L0777: 1, L0752: 1, L0755: 1 and L0757: 1.			
37	HADFD10	843934	47	212 - 328	2644		L0759: 3, S0222: 2, H0427: 2, L0755: 2, L0757: 2, S0134: 1, S0360: 1, H0409: 1, H0333: 1, H0013: 1, H0156: 1, H0575: 1, H0390: 1, L0105: 1, H0263: 1, H0083: 1, S0214: 1, H0032: 1, L0770: 1, L0796: 1, L0794: 1, L0766: 1, L0774: 1, L0776: 1, L0655: 1, S0390: 1, L0751: 1, L0754: 1, L0777: 1, L0752: 1, L0485: 1 and S0196: 1.			
38	HADFK11	637485	48	24 - 197	2645		H0427: 1			
39	HADFT44	793100	49	147 - 314	2646		L0163: 4, T0006: 2, H0716: 1	10g24		157640, 174900.

40	HADFW20	599066	50	223 - 306	2647			1, S6022: 1, S0222: 1, L0623: 1, H0427: 1, S0388: 1, S0051: 1, L0769: 1, L0794: 1, L0659: 1, H0144: 1 and L0758: 1.		180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130, 602082
41	HADFX10	741054	51	187 - 297	2648		Lys-21 to Thr-26.	H0427: 1		
42	HADFY80	654831	52	83 - 187	2649		Thr-24 to Glu-29.	S0222: 1 and H0427: 1.		
43	HADGD93	826467	53	47 - 184	2650			H0427: 1 and H0412: 1.		
44	HADMA77	783049	54	992 - 1063	2651			H0427: 1 AR060: 7 AR089: 9, AK316: 8, L0439: 15, S0222: 4, L0157: 4, L0769: 4, L0438: 3, L0745: 3, L0731: 3, L0758: 3, L0599: 3, H0443: 2, H0441: 2, S0010: 2, L0662: 2, L0744: 2, L0748: 2, L0730: 2, L0756: 2, L0777: 2, H0583: 1, L0005: 1, S0354: 1, H0675: 1, H0619: 1, H0369: 1, H0574: 1, H0486: 1, H0390: 1, S0346: 1, H0309: 1, H0597: 1, T0003: 1, H0024: 1, S0050: 1, S6028: 1, H0028: 1, T0006: 1, H0628: 1, H0135: 1, H0551: 1, S0438: 1, L0520: 1, L0768: 1, L0776: 1, L0559: 1, L0659: 1, L0384: 1, L0809: 1, H0144: 1, H0547: 1, L0746: 1, L0747: 1, L0757: 1 and S0434: 1.		
45	HADXA10	772423	55	1327 - 1698	2652		Ser-90 to Lys-98.	AR089: 12, AR316: 9, AR060: 6 L0766: 3, L0805: 3, L0740: 3, L0749: 3, T0049: 2, H0580: 2, H0619: 2, S0474: 2, H0673: 2, H0674: 2, L0662: 2, L0804: 2, L0775: 2, L0657: 2, L0518: 2, L0666: 2, L0665: 2, S0374: 2, L0777: 2, H0624: 1, S0114: 1.	2p24.3-p24.1	602134

46	HADXA10	859777	56	731 - 1102	2653	Sec-90 to Lys-98	<p>1, H0657: 1, L0785: 1, S0116: 1, S0212: 1, H0664: 1, H0589: 1, H0729: 1, S0046: 1, H0443: 1, H0369: 1, H0333: 1, H0156: 1, H0194: 1, H0231: 1, H0052: 1, S0050: 1, H0051: 1, H0544: 1, S0214: 1, H0428: 1, H0039: 1, H0622: 1, T0023: 1, H0100: 1, S0440: 1, S0422: 1, S0426: 1, L0770: 1, L0769: 1, L0637: 1, L0772: 1, L0648: 1, L0776: 1, L0809: 1, L0367: 1, L0663: 1, H0144: 1, H0520: 1, H0670: 1, S0044: 1, S014: 1, L0439: 1, L0756: 1, L0779: 1, L0752: 1, L0757: 1, L0759: 1, H0444: 1, H0445: 1, H0595: 1, L0596: 1 and L0604: 1.</p>	2p24.3-p24.1	602134
							<p>AR089: 12, AK316: 9, AR060: 6 L0766: 3, L0805: 3, L0740: 3, L0749: 3, T0049: 2, H0580: 2, H0619: 2, S0474: 2, H0673: 2, H0674: 2, L0662: 2, L0804: 2, L0775: 2, L0657: 2, L0518: 2, L0666: 2, L0665: 2, S0374: 2, L0777: 2, H0624: 1, S0114: 1, H0657: 1, L0785: 1, S0116: 1, S0212: 1, H0664: 1, H0589: 1, H0729: 1, S0046: 1, H0443: 1, H0369: 1, H0333: 1, H0156: 1, H0052: 1, H0194: 1, H0231: 1, H0544: 1, S0050: 1, H0051: 1, T0010: 1, S0214: 1, H0428: 1, H0039: 1, H0622: 1, T0023: 1, H0100: 1, S0440: 1, S0422: 1, S0426: 1, L0770: 1, L0769: 1, L0637: 1, L0772: 1, L0648: 1, L0776: 1, L0809: 1, L0367: 1, L0663: 1, H0144: 1, H0520:</p>		

47	HAFBRI15	608180	57	186 - 449	2654	Lys-61 to Lys-70.	<p>1, H0670: 1, S0044: 1, S3014: 1, L0439: 1, L0756: 1, L0779: 1, L0752: 1, L0757: 1, L0759: 1, H0444: 1, H0445: 1, H0595: 1, L0596: 1 and L0604: 1.</p> <p>H0521: 5, S0410: 3, S0476: 3, H0169: 3, L0766: 3, S0026: 3, H0542: 3, H0713: 2, T0049: 2, H0575: 2, H0551: 2, H0623: 2, L0783: 2, L0438: 2, L0777: 2, L0757: 2, L0759: 2, L0588: 2, H0171: 1, H0158: 1, S0040: 1, H0295: 1, H0636: 1, H0341: 1, H0638: 1, S0420: 1, S0356: 1, S0442: 1, H0580: 1, S0007: 1, S0132: 1, H0013: 1, H0052: 1, H0309: 1, H0172: 1, S0022: 1, S0214: 1, H0615: 1, H0622: 1, H0673: 1, H0708: 1, H0591: 1, H0413: 1, H0100: 1, H0494: 1, H0560: 1, S0210: 1, S0422: 1, S0002: 1, L0770: 1, L0637: 1, L0772: 1, L0775: 1, L0653: 1, L0654: 1, L0776: 1, L0657: 1, L0659: 1, S0374: 1, H0659: 1, H0648: 1, H0672: 1, H0539: 1, H0631: 1, S3014: 1, S0028: 1, L0740: 1, L0756: 1, L0779: 1, L0752: 1, S0031: 1, S0260: 1, H0444: 1, H0543: 1 and H0422: 1.</p>		
48	HAFBRI14	832502	58	542 - 637	2655		<p>S0358: 8, L0439: 5, H0052: 3, S0360: 2, L0157: 2, L0438: 2, L0747: 2, L0779: 2, L0594: 2, H0686: 1, T0049: 1, H0156: 1, S0010: 1, H0581: 1, H0596: 1, H0687: 1, S0003: 1, H0316: 1, H0038: 1, H0412: 1, S0038: 1, H0538: 1, L0769: 1, L0772: 1, L0662: 1, L0766: 1, L0775: 1.</p>		

49	HAGAB62	588471	59	82 - 207	2656	Ser-11 to Gty-19.	1, L0655: 1, L0659; 1, L0792; 1, S0206: 1, L0749; 1, L0752; 1, S0260: 1, L0596: 1, L0591: 1, H0677: 1 and S0021: 1 L0766: 7, L0439: 5, H0620: 4, H0328: 4, S0422: 4, S0374: 4, L0777: 4, L0362: 4, S0007: 3, S0003: 3, S0440: 3, L0637: 3, L0771: 3, L0806: 3, L0659: 3, H0684: 3, S0406: 3, L0754: 3, L0747: 3, L0752: 3, L0758: 3, H0171: 2, S0114: 2, L0808: 2, S0356: 2, S0360: 2, L0717: 2, H0486: 2, H0013: 2, H0263: 2, H0553: 2, H0591: 2, L0653: 2, L0537: 2, L0664: 2, L0665: 2, H0144: 2, L0438: 2, H0651: 2, H0521: 2, L0750: 2, L0756: 2, L0759: 2, S0011: 2, S0026: 2, H0543: 2, H0423: 2, H0170: 1, H0685: 1, S0040: 1, H0716: 1, L0002: 1, H0657: 1, S0282: 1, L0005: 1, S0442: 1, S0358: 1, S0376: 1, S0444: 1, S0408: 1, H0586: 1, H0587: 1, H0574: 1, H0427: 1, H0575: 1, S0010: 1, S0665: 1, H0318: 1, H0581: 1, H0085: 1, H0596: 1, H0545: 1, L0041: 1, H0565: 1, L0471: 1, H0012: 1, S0388: 1, H0266: 1, S0250: 1, H0615: 1, H0428: 1, H0622: 1, H0598: 1, H0090: 1, T0067: 1, H0488: 1, H0412: 1, L0351: 1, L0598: 1, H0529: 1, L0763: 1, L0796: 1, L0761: 1, L0646: 1, L0662: 1, L0364: 1, L0803: 1, L0650: 1, L0775: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0807: 1, L0517: 1, L0544: 1, L0663: 1, L0352:
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57	HAGBL31	679582	67	27 - 119	2664	S0010; 1 and L0663; 1.
58	HAGBO09	853357	68	59 - 157	2665	S0010; 1, S0051; 1 and H0144; 1.

59	HAGB012	601431	69	54 - 152	2666		S0010: 1			
60	HAGB051	701965	70	132 - 245	2667		AR060: 4, AR316: 3, AR089: 2 L0756: 9, L0740: 3, S0010: 1, S0051: 1, S0628: 1, L0770: 1, L0789: 1, L0438: 1 and L0600: 1			
61	HAGBS89	846292	71	98 - 205	2668		S0010: 2, S0011: 2 and H0264: 1			
62	HAGBV06	701966	72	98 - 175	2669		AR089: 17, AR316: 14, AR060: 12 L0777: 12, L0758: 9, L0439: 8, L0740: 7, L0779: 7, H0040: 6, L0748: 6, L0747: 6, H0038: 5, L0659: 5, L0595: 5, L0761: 4, L0776: 4, L0663: 4, L0565: 4, L0749: 4, L0605: 4, H0427: 3, H0050: 3, H0673: 3, H0068: 3, L0662: 3, L0666: 3, L0751: 3, H0445: 3, L0596: 3, L0717: 2, H0253: 2, H0457: 2, L0471: 2, H0057: 2, H0014: 2, H0617: 2, T0041: 2, H0641: 2, L0770: 2, L0769: 2, L0794: 2, L0766: 2, L0649: 2, L0775: 2, L0805: 2, S0374: 2, H0682: 2, H0658: 2, H0521: 2, L0742: 2, L0755: 2, L0731: 2, H0543: 2, H0624: 1, H0685: 1, S0342: 1, S0134: 1, H0583: 1, S0116: 1, H0341: 1, H0459: 1, S0360: 1, S0132: 1, H0619: 1, H0392: 1, H0586: 1, L0021: 1, H0599: 1, H0098: 1, S0010: 1, H0318: 1, S0474: 1, H0596: 1, L0118: 1, H0373: 1, H0179: 1, H0416: 1, H0687: 1, H0328: 1, H0039: 1, H0553: 1, H0606: 1, S0366: 1, H0090: 1, H0591: 1, H0616: 1, H0412: 1, H0059: 1, L0369: 1, L0763:	7q34		180105, 222800, 274180

63	HAGBV25	838174	73	725 - 778	2670		1, L0796: 1, L0637: 1, L0372: 1, L0764: 1, L0364: 1, L0774: 1, L0378: 1, L0379: 1, L0657: 1, L0526: 1, L0664: 1, L0665: 1, H0520: 1, H0689: 1, H0672: 1, S0328: 1, L0786: 1, L0759: 1, S0031: 1, L0584: 1, L0591: 1, L0608: 1, L0593: 1, L0601: 1, S0194: 1 and S0456: 1. AR060: 12, AR316: 12, AR089: 11 L0794: 6, L0749: 5, L0756: 5, S0192: 5, L0805: 4, L0747: 4, L0752: 4, L0455: 3, H0038: 3, L0770: 3, L0793: 3, L0591: 3, H0046: 2, H0135: 2, L0769: 2, L0637: 2, L0776: 2, L0659: 2, L0518: 2, L0809: 2, L0565: 2, H0522: 2, L0748: 2, S0282: 2, H0664: 1, S0418: 1, S0420: 1, S0007: 1, S0132: 1, H0333: 1, H0486: 1, H0618: 1, S0010: 1, H0596: 1, L0640: 1, L0471: 1, S0051: 1, T0023: 1, H0316: 1, H0494: 1, S0440: 1, H0509: 1, H0647: 1, L0640: 1, L0772: 1, L0800: 1, L0641: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0651: 1, L0628: 1, L0559: 1, L0542: 1, L0787: 1, L0790: 1, L0665: 1, T0068: 1, H0547: 1, H0689: 1, H0684: 1, H0672: 1, S0378: 1, H0521: 1, H0555: 1, H0478: 1, S0028: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, S0308: 1, L0361: 1 and S0458: 1. 147781, 172471, 186580, 204200, 266600, 600760, 600760, 600761, 600761, 602594
64	HAGBV29	837203	74	16 - 213	2671	Pro-57 to Phe-65.	AR089: 1 S0010: 2 and H0265: 1.
65	HAGCC87	638587	75	509 - 538	2672		AR089: 9, AR316: 8.

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66	HAGCH67	561934	76	150 - 275	2673			S0010: 1, L0805: 1 and L0745: 1.			
67	HAGCI69	560596	77	31 - 231	2674	Asn-39 to Lys-44.		AR089: 5, AR316: 4, AR060: 4 S0010: 1 and S0152: 1.			
68	HAGCT33	751796	78	42 - 161	2675			L0439: 2, L0759: 2, H0013: 1, S0010: 1, L0438: 1, H0521: 1, L0755: 1, L0731: 1 and L0758: 1.			
69	HAGCZ70	747697	79	91 - 198	2676			S0010: 2, L0766: 2 and L0599: 2.			
70	HAGDC73	724860	80	744 - 836	2677			AR060: 6, AR316: 5, AR089: 3 L0794: 6, L0777: 3, H0032: 2, L0766: 2, L0438: 2, L0439: 2, L0758: 2, L0759: 2, L0591: 2, H0624: 1, H0717: 1, S0114: 1, H0661: 1, S0356: 1, S0010: 1, T0010: 1, S0003: 1, H0135: 1, H0038: 1, S0440: 1, H0529: 1, L0763: 1, L0637: 1, L0764: 1, L0657: 1, L0659: 1, L0782: 1, L0809: 1, L0789: 1, H0144: 1, H0519: 1, H0689: 1, H0682: 1, H0659: 1, L0749: 1, L0779: 1 and L0593: 1.			
71	HAGDG84	745368	81	297 - 416	2678			AR060: 4, AR316: 3, AR089: 1 L0754: 7, L0438: 2, S0010: 1, L0794: 1, L0780: 1, H0542: 1 and H0423: 1.			
72	HAGDH85	596804	82	45 - 146	2679			S0010: 1			
73	HAGDI69	566758	83	110 - 121	2680			L0769: 3, L0438: 3, L0439: 1			

74	HAGDI53	821315	84	130 - 231	2681	Gly-20 to His-33.	3, L0759; 3, L0770; 2, L0758; 2, S0010; 1, H0178; 1, H0051; 1, L0455; 1, L0456; 1, S0112; 1, L0745; 1, L0756; 1 and H0352; 1, H0305; 3, S0010; 1 and H0521; 1, H0052; 2, H0599; 1, S0010; 1, H0604; 1, L0741; 1 and L0779; 1, S0010; 1, H0445; 1 and S0276; 1, AR060; 849, AR316; 553, AR089; 225 H0144; 8, L0779; 8, L0769; 6, H0617; 5, L0800; 3, L0771; 3, L0804; 3, L0747; 3, L0759; 3, H0624; 2, H0484; 2, S0356; 2, S0360; 2, S0408; 2, S0007; 2, H0370; 2, H0333; 2, H0009; 2, H0012; 2, H0424; 2, H0203; 2, L0770; 2, L0761; 2, L0766; 2, H0519; 2, L0749; 2, L0750; 2, L0752; 2, H0149; 1, H0265; 1, L0783; 1, S0116; 1, H0341; 1, H0483; 1, H0125; 1, L0005; 1, S0046; 1, S0132; 1, H0393; 1, H0441; 1, H0331; 1, H0101; 1, H0013; 1, S0010; 1, T0048; 1, H0327; 1, H0041; 1, H0570; 1, H0123; 1, H0083; 1, H0290; 1, H0292; 1, H0428; 1, H0213; 1, H0181; 1, H0135; 1, H0038; 1, H0040; 1, H0063; 1, H0264; 1, S0440; 1, S0142; 1, S0210; 1, S0422; 1, L0764; 1, L0773; 1, L0803; 1, L0775; 1, L0783; 1, L0809; 1, L4501; 1, L0438; 1, H0670; 1, H0672; 1, S0406; 1, L0748; 1, L0439; 1, L0758;
75	HAGDI56	608181	85	81 - 185	2682		
76	HAGDI51	637488	86	218 - 319	2683		
77	HAGDO70	812393	87	338 - 880	2684	Asn-74 to Gln-79, Pro-89 to Val-104,	19q13.1 164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716

78	HAGDT30	589514	88	198 - 305	2685	<p>1, S003: 1, L0592: 1, L0608: 1 and H0423: 1.</p> <p>AR060: 4, AR316: 3,</p> <p>AR089: 3</p> <p>H0038: 15, H0547: 12,</p> <p>H0616: 9, H0529: 9, S0126: 9,</p> <p>S0028: 8, H0013: 7, S0010: 7,</p> <p>H0520: 7, H0519: 7, H0052: 6,</p> <p>S6028: 6, H0521: 6, H0123: 5,</p> <p>L0471: 5, H0551: 5, S0046: 4,</p> <p>H0046: 4, L0157: 4, H0024: 4,</p> <p>H0644: 4, H0494: 4, H0518: 4,</p> <p>S0027: 4, L0748: 4, H0543: 4,</p> <p>S0280: 3, H0327: 3, H0050: 3,</p> <p>H0012: 3, H0266: 3, H0144: 3,</p> <p>H0539: 3, H0555: 3, H0445: 3,</p> <p>L0593: 3, L0595: 3, H0624: 2,</p> <p>H0556: 2, H0650: 2, H0656: 2,</p> <p>H0341: 2, S0212: 2, H0663: 2,</p> <p>H0638: 2, S0420: 2, S0360: 2,</p> <p>S0007: 2, S0045: 2, S0132: 2,</p> <p>H0393: 2, S0222: 2, H0486: 2,</p> <p>H0156: 2, H0098: 2, H0575: 2,</p> <p>H0620: 2, S0003: 2, S0214: 2,</p> <p>H0615: 2, H0428: 2, H0553: 2,</p> <p>S0036: 2, H0135: 2, H0090: 2,</p> <p>H0264: 2, H0100: 2, T0042: 2,</p> <p>H0561: 2, H0509: 2, S0142: 2,</p> <p>S0210: 2, L0766: 2, L0803: 2,</p> <p>H0435: 2, H0658: 2, H0436: 2,</p> <p>S3012: 2, S3014: 2, S0206: 2,</p> <p>L0596: 2, L0592: 2, L0594: 2,</p> <p>H0542: 2, H0423: 2, H0506: 2,</p> <p>H0170: 1, S0040: 1, S0218: 1,</p> <p>H0583: 1, H0657: 1, H0483: 1,</p> <p>H0662: 1, S0418: 1, L0005: 1,</p> <p>S0354: 1, S0408: 1, H0637: 1,</p> <p>H0580: 1, H0619: 1, S0278: 1,</p> <p>H0549: 1, H0431: 1, H0357: 1,</p> <p>H0592: 1, H0586: 1, H0497: 1,</p>
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81	HAGEK37	793464	91	932 - 1051	2688	Met-1 to Phe-6.	1 and S0462: 1. AR060: 11, AR316: 10, AR089: 9 L0754: 9, L0771: 6, L0809: 6, L0748: 6, L0794: 5, L0750: 5, L0439: 4, L0752: 4, L0759: 4, L0599: 4, S0376: 3, L0803: 3, L0731: 3, L0758: 3, H0619: 2, H0036: 2, S0010: 2, H0327: 2, H0271: 2, H0416: 2, L0770: 2, L0804: 2, L0774: 2, S0406: 2, L0755: 2, L0362: 2, H0556: 1, H0716: 1, H0583: 1, S0116: 1, H0341: 1, H0177: 1, H0305: 1, H0369: 1, H0586: 1, H0486: 1, H0597: 1, H0046: 1, H0457: 1, H0172: 1, H0123: 1, H0050: 1, H0024: 1, H0051: 1, H0266: 1, H0615: 1, H0553: 1, H0673: 1, H0090: 1, H0591: 1, H0551: 1, H0080: 1, H0100: 1, H0494: 1, H0560: 1, S0440: 1, L0520: 1, L0637: 1, L0761: 1, L0646: 1, L0662: 1, L0768: 1, L0387: 1, L0766: 1, L0775: 1, L0805: 1, L0527: 1, L0518: 1, L0788: 1, L0532: 1, L0666: 1, L0664: 1, S0428: 1, H0703: 1, L0438: 1, H0520: 1, H0658: 1, H0648: 1, S0404: 1, L0740: 1, L0747: 1, L0749: 1, L0756: 1, L0779: 1, L0780: 1, L0753: 1, S0031: 1, S0436: 1, L0361: 1 and S0412: 1.	6p23-p22.3	125264, 187680, 600511, 601556
82	HAGEK36	748222	92	165 - 260	2689		H0585: 7, S0358: 6, L0740: 6, S0052: 4, L0747: 4, L0777: 3, L0596: 3, S0010: 2, L0766: 2, L0776: 2, L0517: 2, L0755: 2, S0222: 1, S0346: 1, H0179: 1, H0428: 1, H0039: 1, H0031: 1.	16q22.1-q22.3	103850, 114835, 116800, 140100, 140100, 192090, 192090, 192090, 192090, 245900, 245900, 276600,

83	HAGEP30	604478	93	120 - 227	2690			1, H0553: 1, H0591: 1, H0616: 1, S0386: 1, H0494: 1, S0016: 1, H0641: 1, L0369: 1, L0769: 1, L0761: 1, L0764: 1, L0768: 1, L0803: 1, L0378: 1, L0652: 1, L0783: 1, L0809: 1, L0367: 1, L0663: 1, L0664: 1, H0144: 1, H0693: 1, S0310: 1, H0547: 1, H0670: 1, S0330: 1, L0741: 1, L0754: 1, L0745: 1, L0749: 1, L0750: 1, L0752: 1, L0731: 1, L0758: 1, L0759: 1, S0031: 1, H0343: 1 and L0599: 1.	600223
84	HAGEQ38	695945	94	162 - 215	2691			S0010: 1 AR060: 7, AR316: 7, AR089: 6 S0010: 2	
85	HAGEQ67	838445	95	226 - 339	2692			AR060: 6, AR316: 6, AR089: 6 L0748: 14, L0754: 8, L0750: 5, S0010: 3, H0553: 3, L0755: 3, H0574: 2, S0003: 2, L0756: 2, S0402: 1, H0619: 1, L0717: 1, S0222: 1, H0331: 1, H0069: 1, L0022: 1, S0050: 1, H0598: 1, S0438: 1, L0369: 1, L0763: 1, L0638: 1, L0639: 1, L0662: 1, L0775: 1, L0776: 1, L0659: 1, H0144: 1, H0520: 1, H0539: 1, H0478: 1, L0741: 1, L0779: 1, L0771: 1, L0752: 1, L0589: 1 and L0366: 1.	
86	HAGEU26	608183	96	175 - 336	2693	Ser-33 to Lau-38.		S0010: 4	
87	HAGEW83	617111	97	18 - 113	2694	Pro-20 to Cys-30.		L0777: 3, S0010: 1, L0775: 1, H0519: 1, L0779: 1, L0752: 1, L0755: 1 and L0758: 1.	11q14.3-q21 133780, 203100, 203100
88	HAGEX49	834502	98	606 - 656	2695			AR060: 6, AR316: 5, AR089: 4 H0178: 4, L0351: 4, S0222:	3p24.3 154705, 190160, 227646, 601154

89	HAGEX49	844227	99	600 - 656	2696				3, H0009: 3, L0769: 3, L0439: 3, H0441: 2, L0794: 2, L0741: 2, S0001: 1, S0045: 1, S6026: 1, S0010: 1, S0346: 1, H0194: 1, H0565: 1, H0569: 1, H0172: 1, S0388: 1, H0399: 1, S6028: 1, L0638: 1, L0767: 1, L0792: 1, L0438: 1, H0520: 1, S0028: 1 and L0595: 1.	3p24.3	154705, 190160, 227646, 601154
90	HAGFD75	847119	100	13 - 198	2697	His-23 to Asp-28, Phe-55 to Asp-61.			AR060: 6, AR316: 5, AR089: 4, H0178: 4, L0351: 4, S0222: 3, H0009: 3, L0769: 3, L0439: 3, H0441: 2, L0794: 2, L0741: 2, S0001: 1, S0045: 1, S6026: 1, S0010: 1, S0346: 1, H0194: 1, H0565: 1, H0569: 1, H0172: 1, S0388: 1, H0399: 1, S6028: 1, L0638: 1, L0767: 1, L0792: 1, L0438: 1, H0520: 1, S0028: 1 and L0595: 1.		
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91	HAGFF43	821316	101	266 - 283	2698			1, L0794: 1, L0387: 1, L0775: 1, L0526: 1, L0782: 1, L0666: 1, H0683: 1, H0672: 1, L0740: 1, L0751: 1, L0754: 1, L0755: 1, L0731: 1, S0434: 1, H0667: 1, S0441: 1 and H0506: 1.	
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92	HAGFT67	861680	102	208 - 486	2699	Cys-26 to Asp-31.		AR060: 9, AR316: 9, AR089: 9 L0777: 6, L0749: 5, L0804: 3, L0439: 3, L0754: 3, L0766: 2, L0788: 2, L0438: 2, L0747: 2, H0265: 1, H0455: 1, S0010: 1, L0655: 1, L0666: 1, S0053: 1, S0374: 1, L0352: 1, L0751: 1, L0756: 1, L0755: 1, L0731: 1, L0757: 1, L0758: 1, L0759: 1, L0599: 1 and L0604: 1. L0794: 2, S0045: 1, H0351: 1, S0010: 1, L0438: 1 and L0439: 1.	
93	HAGFM58	604536	103	243 - 278	2700			S0010: 1	2p14-p13
94	HAGFT48	780112	104	830 - 1192	2701	Gln-47 to Gly-52.			203800, 602404
95	HAGFU31	751713	105	105 - 239	2702	Asn-34 to Gly-39.		AR089: 29, AR316: 23, AR060: 18	
96	HAGFW13	634611	106	183 - 287	2703			H0706: 1 and S0010: 1.	
97	HAGHE45	838059	107	342 - 359	2704			AR089: 29, AR316: 21, AR060: 14	

98	HAGHR18	655435	108	28 - 126	2705		S0346: 3 and S0045: 1. AR055: 7, AR052: 6, AR247: 6, AR061: 6, AR053: 6, AR060: 5, AR182: 5, AR263: 5, AR310: 5, AR312: 4, AR185: 4, AR282: 4, AR251: 4, AR033: 4, AR104: 4, AR299: 4, AR244: 4, AR293: 4, AR313: 4, AR316: 3, AR089: 3, AR269: 3, AR270: 3, AR298: 3, AR253: 3, AR296: 3, AR232: 3, AR285: 3, AR198: 3, AR286: 3, AR283: 3, AR300: 3, AR184: 3, AR237: 3, AR295: 3, AR213: 3, AR284: 2, AR267: 2, AR266: 2, AR290: 2, AR268: 2, AR277: 2, AR289: 2, AR294: 2, AR096: 2, AR186: 2, AR183: 2, AR233: 2, AR229: 2, AR177: 2, AR259: 2, AR039: 2, AR246: 2, AR248: 2, AR175: 2, AR292: 2, AR309: 2, AR265: 2, AR226: 1, AR234: 1, AR179: 1, AR258: 1, AR231: 1, AR238: 1, L0717: 1 and S0346: 1.	
99	HAGIB90	845963	109	59 - 130	2706		AR089: 21, AR316: 19, AR060: 17 L0777: 11, L0766: 10, L0439: 9, L0803: 5, L0748: 5, L0750: 5, L0666: 3, L0734: 3, S0116: 2, S0282: 2, S0222: 2, 143890, 151440, 600173, 600276, 600310, 600310, 601604, 601843	

100	HAHEM51	835871	110	185 - 304	2707			S0346: 2, H0510: 2, H0038: 2, L0769: 2, L0805: 2, L0438: 2, L0743: 2, L0740: 2, L0756: 2, L0755: 2, L0605: 2, S0194: 2, H0624: 1, H0171: 1, H0265: 1, S0420: 1, H0411: 1, S0414: 1, S0049: 1, H0052: 1, T0110: 1, H0179: 1, H0135: 1, H0040: 1, H0264: 1, H0538: 1, L0520: 1, L0639: 1, L0764: 1, L0521: 1, L0794: 1, L0804: 1, L0774: 1, L0775: 1, L0806: 1, L0384: 1, L0789: 1, L0790: 1, L0663: 1, H0144: 1, S0380: 1, H0522: 1, S3012: 1, L0742: 1, L0749: 1, L0779: 1, L0780: 1, L0758: 1, S0026: 1 and H0422: 1.	
								AR060: 9, AR316: 7, AR089: 5, H0599: 1	
101	HAHSA76	848816	111	595 - 600	2708			H0599: 5, L0777: 2, L0485: 2, H0097: 1, H0706: 1, L0774: 1, L0666: 1, L0747: 1, L0780: 1 and L0759: 1.	
102	HAHSD51	847014	112	85 - 234	2709	Leu-32 to Gly-46.		L0731: 12, H0545: 10, H0341: 7, L0769: 7, L0748: 7, L0751: 7, L0750: 7, S0144: 6, L0766: 6, L0747: 6, L0752: 6, L0758: 6, H0295: 5, S0360: 5, S0344: 5, L0775: 5, L0744: 5, L0754: 5, L0755: 5, H0657: 4, H0305: 4, S0278: 4, H0424: 4, H0213: 4, L0774: 4, L0659: 4, L0439: 4, L0740: 4, L0745: 4, L0749: 4, S0007: 3, S0045: 3, S0046: 3, L0622: 3, H0097: 3, H0546: 3, H0012: 3, H0266: 3, H0188: 3, T0006: 3, H0673: 3, H0059: 3, L0803: 3, S3014: 3, L0777: 3, L0757: 3, H0171: 2.	

103	HAIBR76	874298	113	137 - 355	2710	Ser-33 to Ala-45, Glu-48 to Lys-58.	H0478: 1, L0612: 1, L0743: 1, L0746: 1, L0597: 1, L0588: 1, S0276: 1, H0423: 1, S0424: 1, H0293: 1 and H0352: 1. L0747: 4, S0051: 3, L0758: 3, L0005: 2, S0132: 2, S0222: 2, S0346: 2, H0646: 2, L0809: 2, L0438: 2, L0439: 2, L0751: 2, L0750: 2, L0779: 2, L0752: 2, L0599: 2, L0600: 2, H0171: 1, S0444: 1, S0360: 1, S0010: 1, S0250: 1, H0032: 1, H0169: 1, L0456: 1, H0040: 1, L0351: 1, S0426: 1, L0763: 1, L0770: 1, L0794: 1, L0803: 1, L0805: 1, L0636: 1, L0517: 1, L0542: 1, L4501: 1, L0665: 1, H0144: 1, H0547: 1, H0658: 1, H0555: 1, H0436: 1, L0741: 1, L0754: 1, L0756: 1, L0731: 1, S0260: 1, L0362: 1, S0011: 1 and S0026: 1.	17pter-p13.1
104	HAIBT20	741086	114	286 - 393	2711	S0132: 1 and L0759: 1.	S0132: 1	
105	HAIBV91	852223	115	90 - 194	2712	Pro-19 to Ser-28.	H0521: 18, H0677: 11, L0766: 9, L0803: 9, L0779: 7, L0777: 5, H0657: 4, S0360: 4, H0580: 4, L0770: 4, H0542: 4, H0543: 4, H0575: 3, S0474: 3, S0214: 3, H0622: 3, L0655: 3, H0547: 3, H0265: 2, H0583: 2, H0656: 2, H0661: 2, H0486: 2, H0013: 2, H0590: 2, H0581: 2, H0050: 2, H0242: 2, S0003: 2, H0674: 2, H0591: 2, H0551: 2, H0560: 2, H0641: 2, L0662: 2, L0804: 2, L0653: 2, L0776: 2, L0659: 2, L0664: 2, S0126: 2, H0658: 2, H0445: 2, H0624: 1, H0556: 1, H0650: 1, H0341: 1.	2
106	HAICE62	834523	116	363 - 380	2713			

107	HAICL90	637491	117	140 - 259	2714				S0212: 1, S0442: 1, S0358: 1, S0132: 1, S0476: 1, S0278: 1, L0021: 1, H0599: 1, H0036: 1, H0318: 1, H0565: 1, H0570: 1, H0123: 1, H0373: 1, H0375: 1, H0179: 1, H0039: 1, H0031: 1, H0032: 1, H0211: 1, H0090: 1, H0040: 1, H0264: 1, T0042: 1, S0015: 1, H0633: 1, H0647: 1, S0142: 1, S0426: 1, L4557: 1, L0763: 1, L0768: 1, L0794: 1, L0774: 1, L0775: 1, L0806: 1, L0807: 1, L0809: 1, L0790: 1, L0666: 1, H0683: 1, H0672: 1, S0330: 1, H0518: 1, H0522: 1, L0748: 1, L0740: 1, L0754: 1, L0747: 1, L0750: 1, L0752: 1, L0755: 1, S0434: 1, L0591: 1, L0593: 1, H0667: 1, S0242: 1, H0423: 1, H0422: 1 and H0506: 1. L0754: 4, S0132: 3, S0444: 2, L0750: 2, H0689: 1, H0522: 2 and H0423: 1. L0740: 9, L0439: 7, S0360: 5, L0770: 4, L0665: 4, L0748: 4, L0747: 4, L0752: 4, H0431: 3, H0574: 3, L0105: 3, H0553: 3, L0766: 3, L0774: 3, L0776: 3, L0438: 3, H0478: 3, L0749: 3, L0731: 3, H0662: 2, S0007: 2, S0046: 2, L0717: 2, H0156: 2, H0560: 2, H0649: 2, L0773: 2, L0666: 2, H0547: 2, L0754: 2, L0756: 2, L0605: 2, L0362: 2, S0242: 2, H0686: 1, S0212: 1, S0420: 1, S0358: 1, S0376: 1, S0132: 1, H0351: 1, H0497: 1, L0021: 1, H0575: 1, H0590: 1, H0421: 1, H0596: 1, H0231:		176000, 261640, 602574, 602574
108	HAICV44	772554	118	232 - 312	2715				11q23.3		

109	HAIDP45	847015	119	255 - 332	2716		1, L0041: 1, H0086: 1, L0471: 1, S6028: 1, H0687: 1, S0003: 1, H0039: 1, L0194: 1, H0032: 1, H0124: 1, S0036: 1, H0090: 1, H0551: 1, H0268: 1, H0059: 1, H0494: 1, H0646: 1, S0208: 1, L0763: 1, L0769: 1, L0646: 1, L0374: 1, L0389: 1, L0775: 1, L0806: 1, L0659: 1, L0664: 1, L0352: 1, H0520: 1, H0658: 1, H0672: 1, H0539: 1, L0602: 1, H0696: 1, H0555: 1, S0206: 1, L0744: 1, L0733: 1, L0759: 1, L0589: 1, L0366: 1, S0026: 1, S0194: 1, S0276: 1, S0196: 1 and S0424: 1.		
							L0439: 8, L0777: 8, L0666: 4, S0010: 3, H0615: 3, L0637: 3, L0659: 3, L0664: 3, H0648: 3, L0748: 3, L0731: 3, S0412: 3, S0132: 2, S0476: 2, S0222: 2, H0497: 2, H0031: 2, L0774: 2, L0665: 2, H0144: 2, L0438: 2, L0754: 2, L0757: 2, L0758: 2, S0194: 2, H0171: 1, H0265: 1, H0717: 1, S0110: 1, H0669: 1, S0358: 1, S0300: 1, H0369: 1, H0550: 1, S6016: 1, S0414: 1, H0013: 1, H0427: 1, H0599: 1, H0327: 1, H0123: 1, H0553: 1, H0628: 1, H0032: 1, H0264: 1, H0488: 1, S0438: 1, L0769: 1, L0805: 1, L0809: 1, L0663: 1, S0374: 1, S0148: 1, H0435: 1, H0659: 1, H0670: 1, S0328: 1, S0004: 1, H0696: 1, L0744: 1, L0753: 1, L0755: 1, L0759: 1, S0031: 1, S0434: 1, H0667: 1 and H0506: 1.		
110	HAIAB88	780114	120	126 - 404	2717	Trp-23 to Ala-28,	L0776: 6, L0775: 5, L0769: 1 and H0506: 1.	19p13.1	143890, 151440,

111	HAAZ56	716168	121	300 - 407	2718	Pro-39 to Gly-65.	4, L0779: 4, S0358: 3, H0038: 3, L0809: 3, L0747: 3, H0445: 3, H0620: 2, S0051: 2, H0616: 2, L0763: 2, L0770: 2, L0766: 2, L0666: 2, H0638: 2, L0777: 2, L0753: 2, L0759: 2, H0171: 1, H0556: 1, H0686: 1, S0134: 1, H0661: 1, H0638: 1, H0125: 1, S0420: 1, S0354: 1, S0376: 1, H0393: 1, S6026: 1, S0300: 1, H0392: 1, H0013: 1, H0599: 1, S0010: 1, H0318: 1, S0049: 1, H0085: 1, L0040: 1, H0545: 1, H0012: 1, H0271: 1, H0553: 1, H0135: 1, H0040: 1, H0551: 1, H0561: 1, S0142: 1, L0520: 1, L0803: 1, L0375: 1, L0806: 1, L0782: 1, L0647: 1, H0547: 1, S0126: 1, H0659: 1, H0660: 1, H0666: 1, S0380: 1, S0152: 1, S0118: 1, L0745: 1, L0757: 1, L0485: 1, H0543: 1 and H0422: 1.	600173, 600276, 600310, 600310, 601604, 601843
112	HAMFC67	588488	122	282 - 500	2719	Val-34 to Glu-39.	L0770: 4, H0457: 3, L0756: 2, L0759: 2, H0663: 1, H0587: 1, H0013: 1, H0427: 1, H0318: 1, H0594: 1, S0003: 1, H0561: 1, H0529: 1, L0805: 1, L0776: 1, L0655: 1, L0791: 1, L0754: 1, L0755: 1, L0757: 1, L0758: 1 and L0594: 1. L0766: 4, H0657: 1, H0486: 1, H0013: 1, H0644: 1, L0456: 1, H0560: 1, L0662: 1, L0804: 1, L0774: 1, L0793: 1, S0328: 1, L0439: 1, L0749: 1 and H0543: 1.	
113	HAMFQ38	610051	123	90 - 203	2720	Thr-22 to Lys-30.	L0777: 5, L0766: 3, L0803: 3, L0439: 3, S0360: 2, L0598: 2, L0666: 2, L0748: 2, L0049: 1.	176261, 601399

114	HAMGC01	783864	124	644 - 697	2721		<p>1, S0134: 1, S0116: 1, L0717: 1, H0586: 1, H0486: 1, H0575: 1, H0510: 1, H0553: 1, H0560: 1, S0422: 1, L0763: 1, L0769: 1, L0821: 1, L0767: 1, L0768: 1, L0775: 1, L0663: 1, S0374: 1, L0438: 1, H0520: 1, H0682: 1, S0328: 1, L0740: 1, L0757: 1, S0192: 1 and H0543: 1.</p> <p>AR060: 2, AR316: 2, AR089: 2</p> <p>L0766: 5, S0418: 3, H0144: 3, L0777: 3, L0758: 3, L0769: 2, L0771: 2, L0378: 2, L0663: 2, L0740: 2, L0485: 2, H0556: 1, S0134: 1, H0657: 1, H0484: 1, S0420: 1, L0717: 1, S0222: 1, H0270: 1, T0039: 1, L0021: 1, H0263: 1, H0266: 1, H0687: 1, H0252: 1, H0604: 1, H0628: 1, H0617: 1, H0606: 1, H0135: 1, H0100: 1, H0560: 1, H0561: 1, L0796: 1, L0639: 1, L0646: 1, L0764: 1, L0768: 1, L0794: 1, L0774: 1, L0776: 1, L0783: 1, L0383: 1, L0519: 1, L0789: 1, L0793: 1, L0666: 1, L0438: 1, S0328: 1, H0521: 1, H0696: 1, H0134: 1, L0439: 1, L0751: 1, L0747: 1, L0779: 1, L0752: 1, L0731: 1, S0436: 1, L0593: 1 and H0665: 1.</p>	11q23	107680, 107680, 107680, 107720, 133780, 147791, 159555, 168000, 186740, 186830, 188025, 203750, 261640, 600048, 601382, 602574, 602574
115	HANGB24	664478	125	199 - 399	2722	Ala-17 to Gln-23.	<p>AR089: 15, AR316: 11, AR060: 9</p> <p>L0540: 5, S0002: 2, L0663: 2, L0596: 2, S0354: 1, S0376: 1, S0360: 1, H0574: 1, S0049: 1, L0738: 1, L0041: 1, H0051: 1, S0318: 1, S0316: 1, S0036: 1, S0426: 1, L0764: 1, L0662: 1</p>		

									1, L0794: 1, L0804: 1, L0774: 1, L0776: 1, L0666: 1, S0374: 1 and L0748: 1.		
116	HANKC93	847018	126	198 - 317	2723	Lys-18 to Gly-23, Arg-25 to Ser-31.	AR089: 33, AR316: 23, AR060: 13 L0109: 1, S0318: 1, S0316: 1, H0163: 1, L0756: 1 and L0601: 1.				
117	HAPAD35	840384	127	50 - 154	2724		H0042: 1				
118	HAPBR13	609976	128	125 - 283	2725		L0766: 8, H0677: 6, L0759: 5, L0794: 4, L0749: 4, L0662: 3, L0659: 3, L0809: 3, L0787: 3, H0436: 3, L0747: 3, H0716: 2, S0358: 2, H0486: 2, H0042: 2, L0769: 2, L0641: 2, L0764: 2, L0776: 2, L0792: 2, L0663: 2, L0438: 2, H0521: 2, L0779: 2, L0755: 2, L0731: 2, S0436: 2, L0588: 2, L0591: 2, H0624: 1, H0170: 1, H0717: 1, H0650: 1, S0282: 1, H0255: 1, H0261: 1, S0222: 1, H0592: 1, H0587: 1, H0632: 1, L0623: 1, T0060: 1, T0114: 1, H0013: 1, T0048: 1, H0052: 1, L0055: 1, H0674: 1, S0036: 1, H0040: 1, H0616: 1, H0551: 1, H0264: 1, L0351: 1, S0370: 1, L0637: 1, L0761: 1, L0372: 1, L0646: 1, L0642: 1, L0767: 1, L0768: 1, L0774: 1, L0775: 1, L0378: 1, L0805: 1, L0633: 1, L0791: 1, L0666: 1, L0664: 1, S0374: 1, L0352: 1, H0519: 1, H0689: 1, H0435: 1, H0518: 1, L0439: 1, L0750: 1, S0434: 1 and L0599: 1.				
119	HAPBU09	762803	129	247 - 384	2726		AR089: 58, AR316: 46, AR060: 36 L0439: 18, H0521: 9, H0618: 6, H0253: 6, H0457: 5, L0438:	19p13.3-p13.2	108725, 120700, 133171, 136836, 143890, 145981, 147141, 147670,		

120	HAPBU86	789544	130	403 - 510	2727	Ser-20 to Asp-25.	<p>4, L0743: 4, L0748: 4, H0341: 3, H0255: 3, S0222: 3, L0794: 3, L0741: 3, L0415: 2, S0420: 2, S0408: 2, H0497: 2, S0440: 2, S0144: 2, S0002: 2, H0529: 2, L0437: 2, L0769: 2, L0768: 2, L0803: 2, H0144: 2, H0693: 2, H0539: 2, S3014: 2, L0749: 2, S0031: 2, L0591: 2, H0265: 1, H0717: 1, S0402: 1, H0402: 1, H0638: 1, S0140: 1, S0132: 1, L0717: 1, H0351: 1, S0278: 1, H0592: 1, H0333: 1, H0257: 1, H0486: 1, H0013: 1, S0280: 1, H0042: 1, S0049: 1, H0052: 1, H0597: 1, H0320: 1, T0010: 1, H0068: 1, H0090: 1, H0063: 1, H0087: 1, H0625: 1, S0450: 1, H0646: 1, H0652: 1, L0770: 1, L0766: 1, L0378: 1, L0659: 1, L0384: 1, L0809: 1, L0666: 1, L0665: 1, H0520: 1, H0711: 1, H0672: 1, S0136: 1, H0522: 1, S0404: 1, L0747: 1, L0779: 1, L0777: 1, L0780: 1, L0758: 1, L0759: 1, H0444: 1, H0542: 1 and H0423: 1.</p>	4p16.1	142983, 222300
121	HAPBU86	864890	131	403 - 510	2728	Ser-20 to Asp-25.	<p>L0752: 7, L0439: 5, L0438: 2, S0356: 1, H0013: 1, H0042: 1, T0023: 1, H0166: 1, H0591: 1, L0803: 1, L0515: 1, L0659: 1, L0647: 1, L0789: 1, H0539: 1, L0731: 1 and H0352: 1.</p>	4p16.1	142983, 222300
122	HAPNU33	835554	132	1872 - 2084	2729	Leu-36 to Ser-49.	<p>L0752: 7, L0439: 5, L0438: 2, S0356: 1, H0013: 1, H0042: 1, T0023: 1, H0166: 1, H0591: 1, L0803: 1, L0515: 1, L0659: 1, L0647: 1, L0789: 1, H0539: 1, L0731: 1 and H0352: 1.</p>	3p13-q13.33	156845, 156845

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AR258: 3, AR250: 3, AR259: 3, AR179: 3 S0358: 11, H0543: 8, H0622: 8, H0551: 7, H0547: 7, H0575: 6, L0666: 6, L0664: 6, S0436: 6, H0542: 6, H0584: 5, L0769: 5, L0662: 5, L0766: 5, L0789: 5, L0438: 5, H0521: 5, S0406: 5, L0756: 5, L0777: 5, L0755: 5, H0543: 5, H0069: 4, H0251: 4, H0546: 4, H0286: 4, H0617: 4, L0770: 4, L0638: 4, L0761: 4, L0657: 4, L0659: 4, L0663: 4, L0439: 4, L0740: 4, L0751: 4, H0665: 4, H0599: 3, H0544: 3, H0355: 3, H0553: 3, H0135: 3, H0040: 3, H0412: 3, H0100: 3, L0646: 3, L0771: 3, L0794: 3, L0775: 3, L0783: 3, L0809: 3, L5623: 3, L0565: 3, H0519: 3, L0747: 3, L0750: 3, L0752: 3, L0731: 3, L0758: 3, S0434: 3, S0424: 3, H0265: 2, H0556: 2, H0341: 2, H0458: 2, S0420: 2, S0360: 2, S0410: 2, H0587: 2, H0486: 2, H0013: 2, H0618: 2, H0318: 2, H0581: 2, H0620: 2, H0051: 2, H0083: 2, H0375: 2, S0250: 2, H0039: 2, H0030: 2, H0634: 2, H0413: 2, H0623: 2, H0509: 2, S0210: 2, S0002: 2, S0426: 2, L0763: 2, L5565: 2, L0772: 2, L0645: 2, L0764: 2, L0773: 2, L0768: 2, L0774: 2, L0651: 2, L0806: 2, L0653: 2, L0665: 2, H0435: 2, H0670: 2, H0539: 2, H0696: 2, H0436: 2, S0037: 2, S0027: 2, L0757: 2, L0897: 2, L0591: 2, L0581: 2, L0593: 2, L0361: 2, H0423:

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123	HAPNI.62	790340	133	701 - 1009	2730	Glu-45 to Thr-63.	AR060: 4, AR316: 4, AR089: 4 L0717: 5, L0794: 4, L0803: 4, L0770: 3, L0766: 3, L0779: 3, L0755: 3, S0222: 2, L0761: 2, L0764: 2, L0809: 2, L0519: 2, L0666: 2, L0438: 2, H0659: 2, H0436: 2, L0754: 2, L0747: 2, L0750: 2, L0756: 2, L0771: 2, L0758: 2, L0588: 2, L0599: 2, L0604: 2, H0634: 1, H0171: 1, H0657: 1, H0663: 1, H0305: 1, S0420: 1, S0376: 1, H0580: 1, H0639: 1, H0497: 1, H0575: 1, H0318: 1, S0474: 1, T0110: 1, H0123: 1, T0003: 1, H0024: 1, S6028: 1, H0266: 1, H0328: 1, H0553: 1, H0090: 1, S0422: 1, H0529: 1, L0501: 1, L0667: 1, L0642: 1, L0521: 1, L0767: 1, L0650: 1, L0774: 1, L0806: 1, L0635: 1, L0637: 1, L0659: 1, L0792: 1, L0663: 1, L0664: 1, H0144: 1, H0520: 1, H0683: 1, H0648: 1, H0672: 1, H0539: 1, S0044: 1, H0555: 1, L0745: 1, L0749: 1, L0786: 1, L0780: 1, L0591: 1, S0011: 1, H0665: 1, H0542: 1, H0543: 1, H0423: 1 and H0422: 1.	11pter-p15.5
124	HAPN050	834384	134	205 - 315	2731		AR060: 6, AR089: 3, AR316: 3, AR215: 3, AR311: 3, AR213: 3, AR223: 3, AR282: 3, AR207: 3, AR197: 2, AR296: 2, AR254: 2, AR168: 2, AR266: 2, AR270: 2, AR277: 2, AR283: 1, AR216: 1, AR271: 1, AR183: 1.	

125	HAPNY10	702037	135	33 - 167	2732				<p>AR171: 1, AR165: 1, AR096: 1, AR264: 1 L0439: 10, L0779: 6, L0794: 5, L0774: 4, L0375: 4, L0747: 4, H0661: 3, L0771: 3, L0803: 4, L0809: 3, L0750: 3, L0777: 3, S0358: 2, S0360: 2, H0318: 2, H0052: 2, H0150: 2, H0024: 2, H0038: 2, T0042: 2, L0800: 2, L0768: 2, L0766: 2, H0672: 2, L0743: 2, H0624: 1, H0265: 1, H0294: 1, T0049: 1, H0650: 1, H0341: 1, H0125: 1, S0420: 1, L0005: 1, H0733: 1, H0438: 1, L0021: 1, H0575: 1, S0010: 1, S0049: 1, H0263: 1, H0545: 1, H0620: 1, S0051: 1, H0083: 1, H0594: 1, S0028: 1, H0687: 1, H0252: 1, H0644: 1, L0456: 1, H0551: 1, H0413: 1, L0434: 1, S0450: 1, S0472: 1, L0769: 1, L0372: 1, L0764: 1, L0773: 1, L0775: 1, L0659: 1, L0791: 1, L0665: 1, L0438: 1, H0593: 1, S0378: 1, H0704: 1, S3012: 1, L0740: 1, L0756: 1, L0786: 1, L0757: 1, L0759: 1, S0260: 1, L0366: 1 and H0506: 1.</p>	2p24.3-p24.1	602134
									<p>AR089: 25, AR316: 20, AR060: 16 L0766: 13, L0770: 9, S0003: 8, L0439: 8, L0754: 8, L0665: 7, L0731: 6, L0485: 6, L0776: 5, L0740: 5, H0641: 4, L0771: 4, L0775: 4, L0666: 4, L0663: 4, H0521: 4, L0741: 4, L0752: 4, S0356: 3, S0360: 3, L0717: 3, H0013: 3, H0014: 3, L0598: 3, H0547: 3, H0659: 3, L0748: 3, L0749: 3, L0777: 3, L0759:</p>		

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126	HAPPW83	847020	136	66 - 98	2733	3, S0424: 2, S0212: 2, L0005: 2, S0338: 2, S0376: 2, S0408: 2, S0410: 2, S0222: 2, H0575: 2, H0421: 2, H0615: 2, H0428: 2, H0424: 2, H0644: 2, S0440: 2, S0422: 2, H0529: 2, L0369: 2, L0772: 2, L0773: 2, L0662: 2, L0649: 2, L0655: 2, L0659: 2, L0526: 2, L0518: 2, H0144: 2, S0404: 2, L0750: 2, L0756: 2, L0758: 2, S0260: 2, L0604: 2, L0595: 2, H0170: 1, H0556: 1, T0002: 1, S0134: 1, S0218: 1, H0661: 1, H0638: 1, S0418: 1, H0637: 1, H0580: 1, H0728: 1, L0149: 1, S0045: 1, S0476: 1, H0441: 1, H0453: 1, H0574: 1, H0486: 1, H0156: 1, T0082: 1, H0590: 1, H0505: 1, L0157: 1, H0083: 1, H0375: 1, H0687: 1, H0290: 1, T0006: 1, H0213: 1, L0055: 1, H0032: 1, H0674: 1, H0316: 1, H0591: 1, H0038: 1, H0560: 1, H0625: 1, S0448: 1, S0142: 1, S0002: 1, UNKN: 1, L0762: 1, L0640: 1, L0768: 1, L0803: 1, L0774: 1, L0784: 1, L0805: 1, L0783: 1, L0519: 1, H0701: 1, S0310: 1, L0438: 1, L0352: 1, H0520: 1, H0519: 1, S0122: 1, H0690: 1, H0682: 1, H0660: 1, H0666: 1, H0648: 1, S0328: 1, H0539: 1, H0522: 1, S0406: 1, S0028: 1, L0751: 1, L0786: 1, L0755: 1, L0592: 1, L0599: 1, L0608: 1, L0601: 1, S0011: 1 and H0653: 1 H0250: 7, L0748: 4, H0575: 2, H0457: 2, L0665: 2, S0192:
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127	HAPQJ73	580802	137	286 - 336	2/34		2. H0624: 1, H0295: 1, S0442: 1, H0380: 1, H0609: 1, H0050: 1, S0022: 1, H0628: 1, H0598: 1, H0090: 1, H0551: 1, L0642: 1, L0662: 1, L0767: 1, L0768: 1, L0653: 1, L0659: 1, L0542: 1, L0666: 1, S0374: 1, H0547: 1, H0521: 1, H0522: 1, L0740: 1 and S0026: 1. AR089: 5, AR316: 4, AR060: 4 L0754: 9, L0745: 9, L0766: 5, L0665: 3, H0547: 3, H0251: 2, S0438: 2, L0646: 2, L0771: 2, L0649: 2, L0803: 2, L0774: 2, L0659: 2, L0663: 2, L0664: 2, L0599: 2, L0362: 2, H0170: 1, S0134: 1, H0661: 1, S0442: 1, H0580: 1, H0411: 1, H0486: 1, H0013: 1, H0635: 1, H0575: 1, H0590: 1, H0546: 1, H0545: 1, L0157: 1, H0553: 1, H0628: 1, H0090: 1, H0551: 1, H0059: 1, H0560: 1, S0440: 1, S0422: 1, L0598: 1, L0762: 1, L0638: 1, L0648: 1, L0662: 1, L0794: 1, L0650: 1, L0806: 1, L0655: 1, L0790: 1, H0660: 1, S0330: 1, L0439: 1, L0779: 1, L0777: 1, L0759: 1, L0589: 1 and L0592: 1.		
128	HAPQK26	637494	138	300 - 338	2735		AR060: 3, AR316: 2, AR089: 1 H0575: 1 and H0046: 1.		
129	HAPQU71	752580	139	1324 - 1485	2736	Pro-28 to Ser-35.	AR240: 17, AR243: 15, AR246: 14, AR271: 14, AR242: 12, AR272: 11, AR197: 7, AR161: 7, AR162: 7, AR245: 7, AR163: 6, AR282: 6.	4p15.3-p15.1	

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130	HAPQU71	864781	140	1324 - 1485	2737	Pro-28 to Ser-35.	<p>AR240: 17, AR243: 15, AR246: 14, AR271: 14, AR242: 12, AR272: 11, AR197: 7, AR161: 7, AR162: 7, AR245: 7, AR163: 6, AR282: 6, AR198: 6, AR053: 5, AR165: 5, AR195: 5, AR309: 5, AR089: 5, AR204: 5, AR166: 5, AR164: 4, AR193: 4, AR274: 4, AR313: 4, AR254: 4, AR275: 4, AR201: 4, AR207: 3, AR060: 3, AR096: 3, AR311: 3, AR264: 3, AR235: 3, AR312: 3, AR039: 3, AR250: 3, AR263: 3, AR316: 2, AR205: 2, AR291: 2, AR104: 2, AR277: 2, AR247: 2, AR174: 2, AR267: 2, AR055: 2, AR217: 2, AR229: 2, AR300: 2, AR181: 2, AR185: 2, AR176: 2, AR182: 2, AR213: 2, AR283: 2, AR177: 2, AR308: 1, AR257: 1, AR212: 1, AR175: 1, AR261: 1, AR299: 1, AR228: 1, AR033: 1, AR222: 1, AR171: 1, AR199: 1, AR289: 1, AR224: 1, AR061: 1, AR233: 1, AR255: 1, AR232: 1, AR227: 1, H0575: 7, L0751: 5, H0042: 4, L0664: 3, L0665: 3, H0046: 2, H0024: 2, H0658: 2, L0599:</p>	4p15.3-pl5.1
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131	HAPQW18	610052	141	20 - 133	2738		2, H0685: 1, H0663: 1, H0477: 1, S0016: 1, L0639: 1, L0662: 1, L0775: 1, L0806: 1, L0527: 1, L0657: 1, L0666: 1, H0690: 1, H0670: 1, H0666: 1, H0672: 1 and L0755: 1.		
132	HAPQX44	779053	142	515 - 568	2739		L0794: 2, L0789: 2, L0663: 2, L0779: 2, H0575: 1, L0761: 1, L0803: 1, L0805: 1, L0512: 1, L0809: 1, L0666: 1, L0748: 1 and L0731: 1.		
133	HAPRK55	735887	143	172 - 288	2740		H0305: 4, L0805: 3, L0747: 3, H0040: 2, L0803: 2, S0410: 1, H0580: 1, S0300: 1, H0587: 1, H0486: 1, H0575: 1, H0318: 1, S6028: 1, H0598: 1, H0551: 1, H0560: 1, L0773: 1, H0435: 1, H0539: 1, L0758: 1, S0436: 1, H0542: 1 and H0543: 1.		
134	HAPSH37	847021	144	251 - 421	2741		L0758: 2 and H0575: 1. AR089: 26, AR316: 21, AR060: 16 L0439: 7, L0809: 4, L0751: 4, L0639: 3, H0144: 3, L0438: 3, L0758: 3, S0360: 2, L0766: 2, L0803: 2, H0638: 2, L0743: 2, L0744: 2, L0754: 2, L0777: 2, H0716: 1, H0657: 1, H0341: 1, S0212: 1, H0664: 1, H0125: 1, S0376: 1, H0580: 1, H0431: 1, H0331: 1, H0575: 1, H0263: 1, H0596: 1, T0010: 1, H0510: 1, S6028: 1, H0039: 1, H0622: 1, H0553: 1, L0055: 1, H0090: 1, H0264: 1, H0413: 1, L0564: 1, L0475: 1, H0649: 1, L0770: 1, L0772: 1, L0643: 1, L0764: 1, L0662: 1, L0775: 1, L0805: 1, L0776: 1, L0657: 1, L0792: 1, L0663: 1, H0659: 1, H0648: 1.		

135	HAQBG57	837545	145	170 - 340	2742	Trp-10 to Lys-18, Val-32 to Cys-38, Asp-41 to Thr-47.	1, H0539: 1, H0522: 1, H0696: 1, H0436: 1, L0748: 1, L0740: 1, L0749: 1, L0608: 1, H0543: 1 and H0423: 1. H0295: 6, H0255: 2, H0392: 1, H0587: 1, H0333: 1, H0545: 1, H0328: 1, H0616: 1, S0142: 1, H0529: 1, L0659: 1, L0783: 1, L0528: 1, H0547: 1, S0136: 1, S0390: 1, L0754: 1, L0747: 1 and L0752: 1.				
136	HAQBY85	832384	146	192 - 293	2743		AR060: 5, AR316: 5, AR089: 4 L0749: 5, L0777: 3, L0526: 2, L0438: 2, H0547: 2, H0295: 1, S0420: 1, S0356: 1, S0354: 1, S0222: 1, H0586: 1, H0497: 1, L0021: 1, H0553: 1, H0169: 1, H0163: 1, S0440: 1, S0422: 1, L0598: 1, L0769: 1, L0764: 1, L0766: 1, L0633: 1, L0657: 1, L0783: 1, L0793: 1, L0665: 1, H0144: 1, H0519: 1, S0330: 1, L0439: 1, L0731: 1, S0436: 1, L0592: 1, L0485: 1, L0608: 1, L0601: 1 and S0194: 1. AR235: 19, AR291: 19, AR289: 17, AR266: 17, AR261: 17, AR238: 17, AR297: 16, AR243: 16, AR296: 15, AR283: 15, AR269: 15, AR257: 15, AR286: 15, AR287: 14, AR275: 14, AR299: 14, AR183: 14, AR285: 14, AR268: 13, AR182: 13, AR176: 13, AR163: 13, AR161: 13, AR197: 13, AR288: 13, AR165: 13, AR162: 13, AR239: 13,	X			
137	HAQBZ15	801966	147	671 - 826	2744		118800, 123660, 125660, 125660, 193500, 193500, 193500, 193500, 201460, 205100, 237300, 262000, 600266, 601277	2q35			

138	HAQCE18	604906	148	79 - 111	2745			AR227: 7, AR221: 7, AR211: 7, AR212: 7, AR225: 7, AR104: 7, AR199: 6, AR264: 6, AR217: 6, AR214: 6, AR171: 6, AR311: 6, AR055: 6, AR222: 6, AR216: 6, AR277: 6, AR263: 6, AR224: 6, AR223: 5, AR230: 5, AR215: 3, H0046: 5, H0295: 2, H0013: 2, H0009: 2, H0059: 2, H0658: 2, H0294: 1, H0619: 1, H0549: 1, H0550: 1, S0222: 1, H0156: 1, T0071: 1, H0052: 1, H0309: 1, H0041: 1, H0050: 1, H0024: 1, T0010: 1, S0024: 1, H0510: 1, H0687: 1, H0688: 1, H0428: 1, H0039: 1, H0424: 1, H0405: 1, H0181: 1, S0366: 1, H0163: 1, H0087: 1, H0102: 1, H0100: 1, H0494: 1, S0210: 1, H0593: 1, S0126: 1, H0631: 1, S0027: 1, S0032: 1 and S0042: 1. H0295: 1, H0318: 1 and L0662: 1.
139	HAQCE18	795993	149	89 - 166	2746			AR089: 33, AR316: 24, AR060: 16 H0556: 3, S0002: 2, L0518: 2, L0809: 2, H0696: 2, H0265: 1, H0295: 1, S0114: 1, S0134: 1, H0402: 1, H0431: 1, T0039: 1, H0050: 1, H0014: 1, S6028: 1, H0124: 1, H0634: 1, S0440: 1, L0774: 1, L0791: 1, H0660: 1, S0390: 1, S3014: 1, S0032: 1, L0748: 1, L0754: 1, L0750: 1, S0031: 1, H0444: 1, S0026: 1 and L0697: 1.

140	HARAE26	560598	150	225 - 518	2747	Pro-52 to Cys-57.	AR089: 35, AR316: 29, AR060: 23 T0082: 1		
141	HARAT69	769389	151	422 - 1426	2748	Pro-29 to Lys-40, Glu-66 to Phe-79, Arg-112 to Gly-121, Thr-128 to Lys-140, Lys-158 to Ser-168.	AR241: 9, AR263: 9, AR246: 8, AR205: 7, AR244: 7, AR206: 7, AR186: 7, AR204: 7, AR271: 6, AR202: 6, AR273: 6, AR249: 5, AR274: 5, AR192: 5, AR060: 5, AR312: 5, AR243: 5, AR198: 4, AR053: 4, AR253: 4, AR055: 4, AR183: 4, AR275: 4, AR052: 4, AR313: 4, AR039: 4, AR251: 4, AR309: 4, AR194: 4, AR292: 4, AR061: 4, AR316: 4, AR295: 4, AR293: 4, AR282: 3, AR185: 3, AR104: 3, AR089: 3, AR265: 3, AR310: 3, AR033: 3, AR267: 3, AR238: 3, AR213: 3, AR096: 3, AR270: 3, AR229: 3, AR299: 3, AR240: 3, AR294: 3, AR269: 3, AR283: 3, AR291: 3, AR175: 2, AR177: 2, AR231: 2, AR286: 2, AR237: 2, AR182: 2, AR268: 2, AR300: 2, AR259: 2, AR258: 2, AR226: 2, AR298: 2, AR285: 2, AR277: 2, AR256: 2, AR234: 2, AR219: 2, AR247: 2, AR233: 2, AR289: 2, AR218: 2.		

142	HARAZ81	832380	152	435 - 536	2749		AR284: 2, AR227: 1, AR296: 1, AR232: 1, AR290: 1 S0276: 9, L0439: 4, H0559: 2, H0620: 2, L0507: 2, L0803: 2, H0144: 2, L0438: 2, S0040: 1, S0001: 1, T0082: 1, H0581: 1, H0078: 1, H0266: 1, S0022: 1, H0038: 1, S0002: 1, L0794: 1, L0375: 1, L0805: 1, L0509: 1, L0493: 1, L0639: 1, H0547: 1, H0638: 1, L0749: 1, L0779: 1, L0755: 1, L0588: 1, L0605: 1, L0599: 1, H0216: 1 and S0194: 1.	12p13.3-p13.1	103950, 193100, 193400, 200990, 601458, 602096
143	HASAU26	845848	153	1767 - 1916	2750		L0777: 10, H0616: 4, L0738: 4, L0761: 3, L0766: 3, H0648: 3, L0749: 3, L0750: 3, L0755: 3, H0318: 2, H0545: 2, H0373: 2, H0038: 2, S0438: 2, S0422: 2, L0774: 2, L0375: 2, L0657: 2, L0518: 2, H0659: 2, L0731: 2, L0759: 2, H0685: 1, H0294: 1, H0656: 1, L0808: 1, S0420: 1, H0586: 1, L0622: 1, H0486: 1, T0082: 1, S0010: 1, S0049: 1, L0471: 1, H0615: 1, L0520: 1, L0762: 1, L0763: 1, L0770: 1, L0769: 1, L0372: 1, L0646: 1, L0767: 1, L0768: 1, L0803: 1, L0776: 1, L0638: 1, L0636: 1, L0368: 1, L0666: 1, L0664: 1, L0665: 1, H0682: 1, H0658: 1, H0666: 1, S0330: 1, S0406: 1, S0027: 1, L0747: 1, L0779: 1, L0780: 1, L0753: 1 and L0757: 1.		
143	HASAU26	845848	153	1767 - 1916	2750		AR060: 5, AR316: 4, AR089: 3 L0747: 25, L0731: 25,		

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	H0013: 23, H0046: 20, H0144: 18, L0769: 13, L0439: 13, L0662: 11, L0758: 10, H0009: 9, H0556: 8, T0010: 8, L0764: 8, L0748: 8, L0759: 8, S0001: 7, L0776: 7, L0659: 7, S0360: 6, S0007: 6, H0266: 6, L0749: 6, L0750: 6, L0594: 6, H0457: 5, L0761: 5, L0754: 5, L0589: 5, L0592: 5, H0265: 4, H0706: 4, S0010: 4, H0264: 4, L0351: 4, S0002: 4, L0638: 4, L0806: 4, L0805: 4, L0783: 4, L0666: 4, L0565: 4, S0126: 4, H0658: 4, L0745: 4, H0294: 3, H0255: 3, L0005: 3, S0046: 3, H0244: 3, H0178: 3, L0471: 3, H0012: 3, H0620: 3, H0428: 3, H0622: 3, H0551: 3, H0100: 3, L0770: 3, L0637: 3, L0774: 3, L0775: 3, L0665: 3, H0672: 3, H0696: 3, L0740: 3, L0608: 3, S0045: 2, H0619: 2, H0645: 2, H0351: 2, S0278: 2, S0005: 2, H0599: 2, T0082: 2, H0004: 2, H0052: 2, S0250: 2, H0424: 2, H0038: 2, H0616: 2, H0623: 2, S0440: 2, S0344: 2, L0372: 2, L0771: 2, L0768: 2, L0766: 2, L0649: 2, L0518: 2, L0809: 2, S0148: 2, H0520: 2, S0330: 2, L0602: 2, S0152: 2, H0521: 2, S0406: 2, L0612: 2, S0027: 2, S0028: 2, L0743: 2, L0744: 2, L0755: 2, S0031: 2, S0434: 2, L0591: 2, L0604: 2, L0366: 2, H0422: 2, S0040: 1, H0717: 1, H0716: 1, S0024: 1, H0583: 1, H0657: 1, H0341: 1, S0282: 1, H0662: 1, H0638: 1, S0418: 1, S0420:
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144	HASAX57	654833	154	136 - 252	2751		1, S0462: 1, H0506: 1 and H0008: 1. AR060: 4, AR316: 3, AR089: 1 L0777: 4, L0808: 1, S0045: 1, H0431: 1, L0021: 1, H0098: 1, H0575: 1, H0004: 1, H0374: 1, H0014: 1, H0373: 1, S0003: 1, L0803: 1, L0805: 1, L0731: 1, H0595: 1 and S0242: 1.		
145	HASAY07	834511	155	699 - 716	2752		L0770: 4, L0766: 3, L0777: 3, H0050: 2, S0003: 2, S0376: 1, S0444: 1, S0360: 1, H0580: 1, H0393: 1, H0592: 1, H0156: 1, H0575: 1, S0346: 1, T0071: 1, H0188: 1, H0615: 1, L0520: 1, L0649: 1, L0635: 1, L0606: 1, L0607: 1, L0638: 1, L0789: 1, L0663: 1, L0664: 1, H0518: 1, S0027: 1, H0445: 1, L0591: 1, L0592: 1 and L0595: 1.		
146	HATAE01	654834	156	76 - 168	2753		L0742: 3, H0156: 2, L0005: 1, H0261: 1, L0105: 1, H0052: 1, L0157: 1, L0521: 1, L0768: 1, L0438: 1, H0670: 1, L0439: 1 and L0731: 1.		
147	HATAG52	598714	157	154 - 243	2754	Lys-21 to Gln-29.	L0741: 5, H0052: 2, L0605: 2, H0550: 1, H0156: 1, H0135: 1, L0766: 1, S0310: 1, H0689: 1, H0187: 1, L0759: 1 and H0423: 1.	8q23-q24	131950, 153840, 216550, 600669, 601282, 601455, 602232
148	HATAL05	847023	158	134 - 271	2755	Lys-11 to Met-16.	H0156: 1		
149	HATBA90	588403	159	97 - 213	2756		H0156: 1		
150	HATBM71	598715	160	196 - 312	2757		L0777: 13, L0748: 12, L0749: 10, H0521: 9, L0740: 9, H0144: 8, H0013: 5, H0620: 5, L0803: 5, H0069: 4, L0754: 4, H0266: 3, S0250: 3, S0002: 4.	8q24.1-q24.2	188450, 188450, 188450
151	HATCF80	780460	161	620 - 778	2758				

152	HATC167	847024	162	158 - 253	2759	Glu-19 to Pro-27.	1 and L0600: 1. H0556: 20, L0770: 7, H0265: 6, L0766: 6, L0779: 5, H0124: 4, H0144: 4, S0418: 3, S0046: 3, L0659: 3, L0747: 3, H0657: 2, H0638: 2, S0376: 2, H0486: 2, H0013: 2, H0069: 2, H0575: 2, H0318: 2, H0014: 2, H0634: 2, H0494: 2, L0475: 2, S0438: 2, H0538: 2, H0529: 2, L0662: 2, L0637: 2, L0666: 2, L0665: 2, S0027: 2, L0748: 2, L0731: 2, L0754: 2, H0445: 2, L0604: 2, H0668: 2, H0170: 1, H0713: 1, H0716: 1, H0730: 1, H0722: 1, S0278: 1, H0574: 1, T0060: 1, H0250: 1, H0156: 1, H0599: 1, T0082: 1, S0049: 1, H0544: 1, H0571: 1, H0081: 1, H0275: 1, H0083: 1, H0510: 1, H0188: 1, H0031: 1, H0617: 1, L0055: 1, H0264: 1, H0413: 1, H0561: 1, S0142: 1, S0344: 1, S0426: 1, L0369: 1, L0372: 1, L0646: 1, L0794: 1, L0803: 1, L0775: 1, L0375: 1, L0518: 1, L0809: 1, L5623: 1, L0789: 1, H0691: 1, H0726: 1, H0659: 1, H0658: 1, S0328: 1, S0380: 1, H0521: 1, S0406: 1, L0740: 1, L0749: 1, L0750: 1, L0756: 1, L0759: 1, S0436: 1, L0591: 1, L0581: 1, H0667: 1, H0136: 1, H0422: 1 and S0424: 1. AR060: 3, AR316: 2 S0358: 2, L0803: 2, L0731: 2, H0351: 1, H0586: 1, H0333: 1, H0156: 1, H0038: 1, S0378: 1, L0759: 1, S0026: 1, H0665: 1, S0242: 1, L0697: 1 and
153	HATC127	847025	163	237 - 284	2760		

154	HATCS79	848564	164	259 - 381	2761		S0398: 1. L0439: 4, L0766: 2, S0116: 1, H0156: 1 and L0758: 1.	X	
155	HATCX03	899395	165	196 - 333	2762	Gluc-34 to Ser-41.	AR089: 10, AR316: 8, AR060: 6 L0439: 9, L0758: 4, H0156: 3, H0052: 3, S0222: 2, H0038: 2, L0438: 2, L0745: 2, H0305: 1, S0010: 1, S0049: 1, H0616: 1, L0638: 1, L0805: 1, L0791: 1, L0792: 1, S0053: 1, L0756: 1 and L0752: 1.		
156	HATDE03	831097	166	428 - 568	2763		L0439: 19, L0758: 8, L0754: 7, S0126: 5, L0759: 4, L0766: 3, L0749: 3, L0756: 3, L0777: 3, H0486: 2, H0251: 2, H0641: 2, L0794: 2, L0775: 2, L0776: 2, L0809: 2, L0543: 2, S0328: 2, L0779: 2, L0731: 2, L0757: 2, L0599: 2, H0381: 1, S0212: 1, H0661: 1, S0358: 1, S0132: 1, S0222: 1, H0156: 1, H0098: 1, H0201: 1, H0615: 1, L0194: 1, H0551: 1, T0042: 1, L0763: 1, L0770: 1, L0646: 1, L0773: 1, L0364: 1, L0387: 1, L0375: 1, L0827: 1, L0783: 1, L0530: 1, L0665: 1, S0052: 1, H0144: 1, H0659: 1, H0670: 1, H0555: 1, L0743: 1, L0740: 1, L0751: 1, L0747: 1, L0780: 1, L0752: 1, H0445: 1, H0653: 1, H0665: 1, S0242: 1, H0543: 1 and S0424: 1.	16	
157	HATDF41	785628	167	1066 - 1161	2764		AR089: 13, AR316: 11, AR060: 9 L0756: 6, H0156: 5, L0779: 5, L0439: 4, S0242: 4, L0731: 3, H0615: 2, L0666: 2, L0665: 2, L0740: 2, L0753: 2, S0418: 2.	14q22.1-q24.3	104311, 109150, 112262, 182600, 182870, 182870, 182870, 245200, 600225, 600225, 601208

158	HATDH23	603959	168	98 - 106	2765			1, S0442: 1, H0393: 1, H0431: 1, H0486: 1, H0570: 1, L0471: 1, H0328: 1, H0673: 1, H0598: 1, H0038: 1, H0616: 1, L0351: 1, S0440: 1, H0652: 1, L0763: 1, L0638: 1, L0794: 1, L0775: 1, L0805: 1, L0776: 1, L0633: 1, L0657: 1, L0809: 1, H0682: 1, H0670: 1, H0539: 1, H0521: 1, H0696: 1, L0742: 1, L0749: 1, L0759: 1 and S0412: 1.		
								AR089: 7, AK316: 6, AR060: 6, L0439: 6, L0438: 4, L0766: 3, S0040: 2, L0794: 2, L0789: 2, L0745: 2, S0134: 1, S0222: 1, S0220: 1, H0156: 1, H0031: 1, L0804: 1, H0691: 1, S0152: 1, L0740: 1, L0749: 1, L0758: 1 and L0366: 1.		
159	HATDH55	847323	169	50 - 151	2766			1, L0794: 4, H0574: 3, L0803: 3, L0659: 3, S0028: 3, S0212: 2, S0360: 2, H0575: 2, H0038: 2, L0770: 2, L0751: 2, T0049: 1, H0583: 1, L0005: 1, S0442: 1, S0354: 1, S0444: 1, S0408: 1, L0717: 1, H0411: 1, H0587: 1, H0486: 1, H0156: 1, H0098: 1, H0581: 1, H0421: 1, H0327: 1, L0471: 1, H0024: 1, H0015: 1, H0687: 1, H0328: 1, H0553: 1, H0163: 1, H0616: 1, H0623: 1, S0440: 1, H0652: 1, L0371: 1, L0638: 1, L0637: 1, L0630: 1, L0646: 1, L0662: 1, L0515: 1, L0809: 1, L0663: 1, L0665: 1, H0144: 1, S0374: 1, H0658: 1, L0746: 1, L0750: 1, L0777: 1, L0758: 1, L0759: 1, S0260: 1, S0436: 1, H0667: 1 and	3p13-q23	156845, 156845, 156845, 164500, 182280, 227646, 261510, 600151, 600163, 601154

160	HATD084	609850	170	75 - 173	2767				S0192: 1.			
161	HATD001	847028	171	23 - 85	2768				H0156: 1			
									H0521: 2, H0438: 1, H0156: 1, H0421: 1, H0615: 1, H0090: 1, H0633: 1, L0662: 1, L0518: 1, H0539: 1, L0589: 1, L0599: 1 and S0384: 1.			
162	HATDW05	566849	172	232 - 372	2769				H0156: 1			
163	HATEF13	782358	173	139 - 252	2770				L0794: 4, L0803: 3, L0766: 2, L0750: 2, S0360: 1, H0632: 1, H0136: 1, L0767: 1, L0790: 1, H0539: 1 and L0600: 1.	1q42		106150, 106150, 145260, 173870, 173870, 600759, 600996, 601744, 601975
164	HATEF64	571035	174	154 - 240	2771			Leu-8 to Tyr-13.	L0534: 2, S0126: 2, H0486: 1, H0156: 1, H0616: 1, L0794: 1, L0766: 1, L0806: 1, L0776: 1, L0787: 1, H0144: 1, H0547: 1, L0744: 1, L0758: 1 and L0592: 1.			
165	HATEH40	637513	175	230 - 328	2772				AR089: 10, AR316: 9, AR060: 8			
									S0422: 2, H0686: 1, H0662: 1, H0156: 1, H0253: 1, S0214: 1, H0328: 1, L0803: 1, L0774: 1, L0666: 1, L0755: 1 and H0595: 1.			
166	HATEI22	855585	176	2203 - 2328	2773				AR193: 4, AR263: 4, AR162: 3, AR252: 3, AR171: 3, AR165: 3, AR176: 3, AR272: 3, AR166: 3, AR235: 3, AR196: 3, AR180: 2, AR181: 2, AR264: 2, AR311: 2, AR282: 2, AR164: 2, AR161: 2, AR200: 2, AR174: 2, AR224: 2, AR203: 2, AR270: 2, AR243: 2, AR201: 2, AR089: 2.			

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AR096: 2, AR178: 2, AR288: 2, AR229: 2, AR269: 2, AR289: 1, AR212: 1, AR214: 1, AR261: 1, AR290: 1, AR228: 1, AR277: 1, AR175: 1, AR179: 1, AR293: 1, AR223: 1, AR234: 1, AR055: 1, AR033: 1, AR189: 1, AR190: 1, AR247: 1, AR308: 1, AR316: 1, AR199: 1, AR104: 1, AR188: 1 L0439: 8, H0046: 7, L0775: 4, H0013: 3, L0766: 3, H0547: 3, L0750: 3, L0777: 3, L0731: 3, L0757: 3, S0436: 3, S0420: 2, S0360: 2, L0586: 2, H0620: 2, H0264: 2, L0763: 2, L0769: 2, L0649: 2, L0776: 2, L5623: 2, L0438: 2, L0748: 2, L0752: 2, L0759: 2, H0265: 1, H0556: 1, H0685: 1, H0716: 1, H0294: 1, S0418: 1, S0444: 1, H0722: 1, H0351: 1, H0438: 1, H0497: 1, H0156: 1, L0021: 1, S0010: 1, H0318: 1, H0085: 1, H0546: 1, H0024: 1, T0010: 1, H0510: 1, H0687: 1, H0688: 1, H0428: 1, L0456: 1, H0124: 1, H0038: 1, H0616: 1, H0059: 1, T0041: 1, S0382: 1, L0065: 1, H0646: 1, L0369: 1, L0770: 1, L0637: 1, L0800: 1, L0764: 1, L0363: 1, L0768: 1, L0774: 1, L0527: 1, L0659: 1, L0647: 1, L0663: 1, L0664: 1, L0665: 1, H0519: 1, H0435: 1, H0660: 1, H0648: 1, S0332: 1, L0754: 1, L0749:
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167	HAUCC84	830672	177	265 - 513	2774	Glu-4 to Ala-9, Leu-35 to Ala-40.	<p>1, L0756: 1, L0755: 1, L0584: 1, L0603: 1, H0543: 1, H0423: 1 and H0422: 1.</p> <p>H0271: 72, H0551: 18, S0356: 14, H0250: 14, H0416: 14, H0556: 13, H0295: 10, S0360: 10, H0385: 9, S0418: 9, L0666: 9, H0521: 9, H0522: 9, S0406: 9, H0294: 7, S0358: 7, H0635: 7, L0764: 7, S0408: 6, H0494: 6, L0639: 6, S0053: 6, S0126: 6, H0670: 6, S0404: 6, L0731: 6, L0757: 6, S0046: 5, S0132: 5, H0545: 5, L0800: 5, L0755: 5, H0265: 4, S0420: 4, H0546: 4, H0083: 4, H0179: 4, L0646: 4, L0664: 4, L0751: 4, L0779: 4, L0601: 4, S0196: 4, S0354: 3, H0086: 3, H0288: 3, H0622: 3, H0628: 3, H0412: 3, H0413: 3, S0440: 3, S0210: 3, L0763: 3, L0772: 3, L0775: 3, L0783: 3, S0428: 3, H0593: 3, L0602: 3, S0152: 3, S0434: 3, H0506: 3, H0583: 2, H0484: 2, S0376: 2, S0045: 2, H0411: 2, H0370: 2, H0587: 2, H0599: 2, H0544: 2, H0024: 2, H0634: 2, H0641: 2, L0765: 2, L0773: 2, L0662: 2, L0803: 2, L0774: 2, L0382: 2, L0809: 2, H0666: 2, H0648: 2, H0518: 2, H0576: 2, H0478: 2, S0314: 2, L0740: 2, L0747: 2, L0750: 2, L0758: 2, H0445: 2, L0596: 2, L0603: 2, H0665: 2, S0242: 2, H0624: 1, H0186: 1, S0040: 1, H0716: 1, S0116: 1, S0212: 1, H0255: 1, H0664: 1, H0662: 1, H0402: 1, H0638: 1, S0444: 1, T0008: 1.</p>	6p21.3	<p>106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475</p>
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168	HAWAS41	877621	178	140 - 259	2775	<p>1, S0222: 1, H0409: 1, H0592: 1, H0586: 1, H0486: 1, H0190: 1, H0427: 1, H0156: 1, H0705: 1, H0408: 1, H0505: 1, S0049: 1, H0509: 1, H0183: 1, H0596: 1, H0231: 1, H0530: 1, H0620: 1, H0188: 1, S0338: 1, H0328: 1, L0483: 1, S0368: 1, H0604: 1, H0644: 1, H0181: 1, H0617: 1, H0606: 1, H0189: 1, S0036: 1, H0264: 1, H0560: 1, S0352: 1, H0647: 1, H0646: 1, H0558: 1, L0762: 1, L0507: 1, L0627: 1, L0372: 1, L0642: 1, L0771: 1, L0794: 1, L0804: 1, L0376: 1, L0784: 1, L0629: 1, L0656: 1, L0383: 1, L0665: 1, S0052: 1, S0216: 1, S0292: 1, H0689: 1, H0435: 1, S0328: 1, S0378: 1, H0710: 1, H0696: 1, H0555: 1, S0037: 1, S0032: 1, L0780: 1, S0192: 1, S0276: 1, H0422: 1 and L0600: 1.</p>		
169	HAWBA65	542056	179	228 - 365	2776	<p>H0265: 1, H0556: 1, S0134: 1, H0580: 1, H0441: 1, T0060: 1 and H0543: 1.</p> <p>L0777: 6, L0748: 5, L0758: 5, L0439: 4, L0375: 3, L0531: 3, L0663: 3, L0747: 3, L0749: 3, L0596: 3, H0553: 2, H0644: 2, H0038: 2, L0803: 2, L0651: 2, L0809: 2, H0144: 2, L0438: 2, S0330: 2, L0740: 2, L0731: 2, L0591: 2, L0362: 2, L0603: 2, H0170: 1, H0686: 1, S0376: 1, S0360: 1, H0619: 1, H0549: 1, H0331: 1, T0060: 1, T0114: 1, H0013: 1, S0474: 1, H0421: 1, H0052: 1, H0597: 1, H0046: 1, H0009: 1, H0567: 1, H0050:</p>		

170	HBAGH64	801884	180	1074 - 1079	2777			1, L0471: 1, H0012: 1, H0510: 1, H0188: 1, H0615: 1, H0428: 1, H0059: 1, H0100: 1, S0002: 1, H0369: 1, L0763: 1, L0770: 1, L0769: 1, L0646: 1, L0800: 1, L0643: 1, L0764: 1, L0773: 1, L0662: 1, L0768: 1, L0509: 1, L0657: 1, L0789: 1, L0665: 1, S0374: 1, H0520: 1, H0519: 1, H0593: 1, H0684: 1, H0555: 1, H0478: 1, L0743: 1, L0754: 1, L0780: 1, L0757: 1, L0759: 1, S0436: 1, L0599: 1, L0604: 1, S0276: 1, S0196: 1, H0543: 1 and H0352: 1.
171	HBAGV01	862000	181	17 - 109	2778			L0809: 4, L0766: 3, L0439: 3, H0634: 2, H0411: 2, L0794: 2, L0736: 2, L0731: 2, L0005: 1, H0599: 1, L0471: 1, S0051: 1, T0010: 1, H0266: 1, S0150: 1, L0637: 1, L0765: 1, L0803: 1, L0783: 1, H0144: 1, H0672: 1, S0392: 1, L0748: 1, L0779: 1, L0777: 1 and L0759: 1.
172	HBAMC50	877577	182	101 - 244	2779	Arg-18 to Arg-24, Arg-40 to Lys-47.		L0803: 2, H0411: 1, H0587: 1, L0623: 1, L0652: 1, L0809: 1 and H0710: 1. H0410: 1
173	HBAMC37	608189	183	168 - 200	2780			H0410: 2
174	HBBA42	841010	184	646 - 771	2781			L0752: 8, L0766: 6, L0754: 5, H0624: 4, H0013: 4, L0775: 4, L0666: 4, H0156: 3, L0803: 3, L0774: 3, L0659: 3, L0439: 3, L0740: 3, L0745: 3, L0756: 3, L0731: 3, H0171: 2, H0657: 2, S0003: 2, H0169: 2, L0662: 2, L0805: 2, L0776: 2, L0664: 2, L0665: 2, H0144: 2, S0126: 2.

175	HBBB08	736014	185	805 - 840	2782				2, H0658: 2, H0670: 2, H0672: 2, H0521: 2, S0404: 2, L0746: 2, L0599: 2, L0608: 2, S0192: 2, H0542: 2, H0686: 1, S0116: 1, H0661: 1, H0662: 1, S0442: 1, S0376: 1, S0444: 1, S0360: 1, S0408: 1, S0045: 1, L0717: 1, H0351: 1, H0550: 1, H0587: 1, L0021: 1, H0575: 1, H0581: 1, H0374: 1, H0251: 1, T0115: 1, H0546: 1, H0545: 1, H0572: 1, H0123: 1, S0388: 1, H0356: 1, H0510: 1, H0266: 1, H0428: 1, H0622: 1, H0032: 1, H0674: 1, H0090: 1, H0412: 1, H0413: 1, H0100: 1, H0494: 1, S0438: 1, S0440: 1, H0646: 1, S0208: 1, L0369: 1, L0763: 1, L0796: 1, L0637: 1, L0646: 1, L0641: 1, L0773: 1, L0767: 1, L0806: 1, L0657: 1, L0512: 1, L0526: 1, L0783: 1, L0809: 1, L0791: 1, L0663: 1, L0565: 1, H0659: 1, H0660: 1, H0648: 1, S0328: 1, S0330: 1, H0539: 1, S0380: 1, H0696: 1, S0146: 1, S0406: 1, H0555: 1, L0780: 1, S0031: 1, S0260: 1, S0436: 1 and H0543: 1.
176	HBBB08	736014	185	805 - 840	2782				H0374: 1
176	HBBB08	833591	186	106 - 297	2783	Pro-44 to Thr-54.			L0766: 1, L0745: 9, L0756: 9, L0752: 5, H0305: 3, S0414: 3, S0422: 3, L0439: 3, H0156: 2, H0374: 2, S0051: 2, L0754: 2, L0731: 2, L0757: 2, L0596: 2, L0717: 1, S0222: 1, H0486: 1, H0590: 1, S0010: 1, H0196: 1, H0194: 1, S0388: 1, H0494: 1, S0448: 1, L0065: 1, L0627: 1, L0772: 1, L0768: 1, L0774: 1.

177	HBBMA11	787308	187	199 - 378	2784			1, L0375: 1, H0519: 1, S0328: 1, L0779: 1, L0777: 1 and S0106: 1, H0389: 1		
178	HBCAK10	810227	188	96 - 128	2785			L0803: 4, L0663: 3, S0420: 2, L0666: 2, H0435: 2, L0748: 2, L0777: 2, S0116: 1, S0132: 1, H0370: 1, L0021: 1, S0422: 1, L0664: 1, H0658: 1, S0328: 1, L0749: 1, S0436: 1 and L0997: 1,		
179	HBCAK80	840585	189	124 - 243	2786			AR060: 18, AR316: 11, AR089: 5, L0803: 14, L0744: 13, L0754: 13, H0265: 12, L0731: 11, H0556: 9, H0031: 9, L0740: 9, L0738: 7, S0010: 6, H0038: 6, H0494: 6, L0776: 6, L0659: 6, L0757: 6, H0553: 5, H0561: 5, L0769: 5, L0439: 5, L0747: 5, L0599: 5, S0360: 4, H0253: 4, H0318: 4, H0052: 4, L0745: 4, L0591: 4, H0542: 4, H0543: 4, S0222: 3, H0497: 3, H0574: 3, H0013: 3, S0346: 3, H0457: 3, L0471: 3, H0083: 3, T0006: 3, H0264: 3, L0766: 3, L0663: 3, H0435: 3, H0670: 3, H0521: 3, H0522: 3, L0743: 3, L0751: 3, L0749: 3, H0445: 3, L0608: 3, H0685: 2, S0134: 2, H0650: 2, H0661: 2, S0420: 2, L0005: 2, H0580: 2, S0045: 2, H0370: 2, H0592: 2, S0280: 2, H0234: 2, H0546: 2, H0046: 2, L0157: 2, H0620: 2, H0014: 2, S028: 2, H0266: 2, H0188: 2, S0250: 2, H0622: 2, L0142: 2, L0456: 2, H0040: 2, H0616: 2, H0100: 2, S0002: 2, L0763: 2,	2q37.1	181031

180	HBCAQ48	525002	190	320 - 421	2787				L0636: 1, L0542: 1, L0782: 1, L0519: 1, L0789: 1, H0144: 1, S0374: 1, S0310: 1, H0519: 1, S0126: 1, H0682: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, L0602: 1, H0555: 1, H0436: 1, H0626: 1, S0037: 1, L0748: 1, L0779: 1, L0777: 1, L0752: 1, L0755: 1, S0260: 1, S0434: 1, S0436: 1, L0361: 1, S0026: 1, H0423: 1, S0384: 1 and H0352: 1.	3p25.3-3p24.1	193300, 193300, 227646, 601154
181	HBCAY17	801855	191	281 - 376	2788	Pro-25 to Pro-31.			H0556: 2, H0550: 2, H0581: 2, H0505: 2, H0509: 2, L0593: 2, S0040: 1, H0657: 1, H0656: 1, S0418: 1, H0619: 1, S0278: 1, H0370: 1, H0156: 1, H0052: 1, H0309: 1, H0327: 1, H0373: 1, H0083: 1, H0510: 1, T0023: 1, H0551: 1, H0264: 1, H0413: 1, T0041: 1, H0132: 1, H0529: 1, L0438: 1, H0547: 1, H0651: 1, H0539: 1, H0134: 1, S0390: 1, L0439: 1, S0260: 1, H0445: 1, L0601: 1, S0011: 1, H0665: 1 and H0423: 1.		
181	HBCAY17	801855	191	281 - 376	2788	Pro-25 to Pro-31.			AR089: 39, AR316: 31, AR060: 25 L0439: 10, L0769: 3, H0455: 2, L0526: 2, L0438: 2, L0748: 2, L0751: 2, L0777: 2, L0411: 1, S0110: 1, S0001: 1, L0717: 1, S0222: 1, H0370: 1, L0563: 1, H0041: 1, H0687: 1, H0286: 1, H0413: 1, H0494: 1, S0344: 1, L0770: 1, L0793: 1, H0521: 1, H0187: 1, S0028: 1, L0786: 1 and L0752: 1.		
182	HBCGE46	658669	192	225 - 365	2789				S0334: 1		
183	HBCGRA14	838123	193	298 - 408	2790	Pro-20 to Ser-28.			H0617: 6, L0666: 3, H0188:		

184	HBCBE75	897455	194	161 - 328	2791	Tyr-19 to Ala-27, Asp-33 to Thr-43, Ala-45 to His-55.	2, H0181: 2, H0196: 1, H0039: 1, H0673: 1, L0373: 1, L0775: 1, L0659: 1, L0809: 1, L0789: 1, L0663: 1, L0665: 1, H0658: 1, S0330: 1, S0378: 1 and S0406: 1.		
185	HBCBP22	703166	195	109 - 132	2792	L0748: 6, L0740: 4, L0731: 1, H0543: 1 and H0423: 1.	AR089: 13, AR316: 12, AR060: 12 H0585: 9, H0617: 8, L0776: 4, L0755: 4, L0758: 4, H0295: 3, S0406: 3, H0484: 2, S0408: 2, H0251: 2, H0546: 2, H0188: 2, H0615: 2, S0440: 2, S0422: 2, L0770: 2, L0764: 2, L0806: 2, H0519: 2, L0748: 2, L0439: 2, L0740: 2, L0747: 2, L0753: 2, L0589: 2, H0265: 1, H0556: 1, H0141: 1, S0134: 1, H0254: 1, H0661: 1, S0336: 1, S0442: 1, S0222: 1, H0370: 1, H0486: 1, L0586: 1, S0049: 1, H0562: 1, L0471: 1, H0620: 1, H0024: 1, H0266: 1, H0292: 1, H0213: 1, H0181: 1, H0182: 1, H0606: 1, H0673: 1, S0364: 1, S0366: 1, H0598: 1, H0163: 1, H0087: 1, H0412: 1, H0059: 1, H0100: 1, H0494: 1, H0646: 1, L0763: 1, L0644: 1, L0363: 1, L0768: 1, L0649: 1, L0774: 1, L0775: 1, L0375: 1, L0653: 1, L0636: 1, L0518: 1, L0783: 1, L0809: 1, L0519: 1, L0665: 1, H0702: 1, H0547: 1, H0690: 1, H0684: 1, S0328: 1, S0330: 1, H0539: 1, S0380: 1, H0696: 1, H0134: 1, H0555: 1, H0447: 1, L0743: 1, L0750: 1, L0759: 1, H0542: 1, H0543: 1 and H0423: 1.		

186	HBCFQ34	793803	196	86 - 199	2793	Ser-21 to Ser-26, Glu-32 to Pro-37.	4, L0717: 3, L0776: 3, L0439: 3, L0747: 3, L0749: 3, H0617: 2, L0774: 2, L0663: 2, L0779: 2, L0758: 2, H0402: 1, S0358: 1, S0360: 1, H0441: 1, H0250: 1, H0156: 1, S0024: 1, H0428: 1, H0181: 1, L0455: 1, H0380: 1, H0413: 1, L0772: 1, L0771: 1, L0766: 1, L0655: 1, L0661: 1, L0789: 1, L0532: 1, H0593: 1, H0689: 1, S0330: 1, L0743: 1, L0754: 1, L0755: 1, L0759: 1, L0588: 1 and H0543: 1.	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884
187	HBCML95	839192	197	90 - 431	2794	Glu-28 to Phe-33, Ala-56 to Gln-62.	AR089: 32, AR316: 27, AR060: 23 H0617: 1	16	
188	HBCMT60	840586	198	163 - 279	2795	Gly-27 to Met-38.	AR089: 43, AR316: 35, AR060: 28 H0617: 25, H0422: 5, H0181: 4, L0743: 4, H0549: 3, L0666: 3, H0658: 3, H0436: 3, H0543: 3, H0583: 2, H0402: 2, S0354: 2, H0486: 2, H0688: 2, S0366: 2, H0423: 2, H0663: 1, H0664: 1, S0358: 1, S0360: 1, S0045: 1, H0550: 1, S0222: 1, H0485: 1, H0590: 1, H0618: 1, H0457:	11	

189	HBHAA53	603183	199	53 - 541	2796	Lys-44 to Thr-50, Gln-111 to Gly-118, Pro-123 to Tyr-129.	1, H0375: 1, H0266: 1, H0179: 1, H0634: 1, H0412: 1, H0509: 1, L0761: 1, L0774: 1, L0663: 1, H0689: 1, H0690: 1, H0648: 1, L0748: 1, L0779: 1, L0759: 1, S0308: 1, L0605: 1 and H0665: 1.		
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190	HBIAU43	840354	200	202 - 258	2797			AR315: 6, AR227: 6, ARI79: 6, AR266: 6, AR244: 6, AR248: 5, AR298: 5, AR295: 5, AR183: 5, AR289: 5, AR259: 5, AR256: 5, AR291: 4, AR232: 4, AR284: 4, AR283: 4, AR314: 4, AR253: 3, AR281: 2, AR265: 2, S0029: 1		
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191	HBIAW58	596805	201	17 - 109	2798	Tyr-15 to Asn-21,		S0049: 1		
192	HBIBB20	897484	202	153 - 368	2799	Pro-59 to Ala-64,		L0751: 8, L0439: 6, L0659: 5, L0438: 4, L0744: 4, L0734: 4, L0777: 4, S0046: 3, H0052: 3, H0009: 3, H0271: 3, L0662: 3, L0665: 3, L0747: 3, S0358: 2, H0586: 2, H0251: 2, H0100: 2, L0794: 2, L0803: 2, L0809: 2, H0519: 2, S0126: 2, L0749: 2, L0731: 2, L0757: 2, L0665: 2, H0170: 1, H0717: 1, H0295: 1, H0294: 1, L0785: 1, S0116: 1, H0483: 1, S0418: 1, S0045: 1, H0619: 1, H0550: 1, H0370: 1, H0592: 1, H0574: 1, H0427: 1, H0599: 1, T0082: 1, S0010: 1, S0049: 1, H0544: 1, H0545: 1, H0570: 1, H0051: 1, S0388: 1, H0336: 1, H0399: 1, H0266: 1		

193	HBIBF26	845743	203	655 - 1206	2800	Pro-67 to Ser-78, Thr-89 to Trp-96, Arg-114 to Ser-125, Ser-147 to Ala-155.	1, H0622: 1, L0194: 1, H0135: 1, H0412: 1, H0623: 1, H0059: 1, L0351: 1, T0042: 1, H0561: 1, S0294: 1, L0640: 1, L4747: 1, L5375: 1, L5565: 1, L0800: 1, L0764: 1, L0648: 1, L0768: 1, L0774: 1, L0776: 1, L0657: 1, L0559: 1, L0519: 1, L0789: 1, L0792: 1, L0666: 1, L0664: 1, H0520: 1, H0547: 1, S0328: 1, S0378: 1, S0152: 1, H0521: 1, S0190: 1, S0406: 1, H0436: 1, L0748: 1, L0759: 1, L0601: 1, L0366: 1 and H0423: 1, AR186: 30, AR061: 21, AR298: 20, AR314: 17, AR055: 17, AR104: 16, AR239: 15, AR259: 15, AR249: 15, AR284: 14, AR227: 14, AR292: 13, AR052: 12, AR233: 12, AR237: 12, AR033: 12, AR232: 11, AR182: 11, AR185: 11, AR280: 10, AR300: 10, AR170: 10, AR241: 10, AR283: 10, AR315: 10, AR299: 10, AR226: 10, AR273: 9, AR248: 9, AR282: 9, AR275: 9, AR294: 9, AR184: 9, AR293: 9, AR231: 8, AR234: 8, AR194: 8, AR265: 8, AR192: 7, AR206: 7, AR267: 7, AR238: 7, AR286: 7, AR175: 7, AR240: 7, AR295: 7, AR285: 6, AR213: 6, AR312: 6, AR266: 6, AR289: 6, AR313: 6,	20q11.21- q13.11	102700, 102700, 602025
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194	HBIBM433	852045	204	2 - 76	2801	Ser-11 to Glu-18.	1, S0007: 1, S0132: 1, S0476: 1, H0393: 1, H0369: 1, H0550: 1, H0409: 1, H0256: 1, H0250: 1, H0042: 1, H0036: 1, H0318: 1, S0049: 1, H0050: 1, H0014: 1, H0375: 1, S6028: 1, H0266: 1, H0292: 1, H0428: 1, H0623: 1, H0031: 1, H0617: 1, S0364: 1, L0456: 1, H0135: 1, H0040: 1, H0379: 1, H0264: 1, H0056: 1, H0623: 1, H0100: 1, H0633: 1, H0649: 1, S0002: 1, H0529: 1, L0762: 1, L5575: 1, L0772: 1, L0646: 1, L0771: 1, L0773: 1, L0767: 1, L0768: 1, L0803: 1, L0805: 1, L0653: 1, L4501: 1, L0666: 1, H0689: 1, H0690: 1, H0682: 1, H0670: 1, H0522: 1, S0044: 1, H0436: 1, S0077: 1, L0744: 1, L0754: 1, L0749: 1, L0753: 1, L0731: 1, S0436: 1, H0653: 1, S0192: 1, H0542: 1, H0543: 1, H0423: 1 and S0424: 1.	
195	HBIBN67	598719	205	71 - 187	2802	Gly-23 to Thr-33.	AR089: 43, AR316: 38, AR060: 33 S0049: 1 L0754: 6, L0758: 4, L0794: 3, S0007: 2, H0586: 2, L0769: 2, L0766: 2, L0803: 2, S0126: 2, S0328: 2, L0748: 2, L0746: 2, S0116: 1, S0360: 1, H0333: 1, S0049: 1, H0309: 1, H0546: 1, H0178: 1, H0188: 1, L0371: 1, L0771: 1, L0804: 1, L0776: 1, L0659: 1, L0788: 1, L0789: 1, L0666: 1, L0665: 1, L0749: 1 and L0777: 1.	
196	HBIBQ69	580807	206	112 - 219	2803		AR089: 16, AR316: 12, AR060: 9	

197	HBIBR38	612783	207	27 - 74	2804		H0263: 1, S0049: 1 and S0428: 1.		
198	HBIBR61	824258	208	235 - 243	2805		S0049: 1 AR089: 4, AR316: 4, AR060: 3 L0741: 6, L0439: 5, L0742: 4, L0352: 3, S0010: 2, L0764: 2, L0768: 2, L0717: 1, H0013: 1, H0318: 1, S0049: 1, H0052: 1, H0009: 1, S0036: 1, H0135: 1, H0087: 1, L0351: 1, L0749: 1, L0755: 1, S0031: 1 and L0594: 1.	3	
199	HBIBS33	590280	209	234 - 305	2806		S0049: 1		
200	HBIBT13	608320	210	65 - 166	2807		S0049: 1, H0416: 1 and H0316: 1.		
201	HBIBZ20	688861	211	146 - 202	2808		S0049: 1	14q22.1	112262, 182600, 182870, 182870, 182870, 600225, 600225
202	HBICB80	637516	212	190 - 252	2809		S0358: 10, L0439: 5, H0009: 4, S0360: 3, S0408: 3, H0585: 2, H0657: 2, S0420: 2, S0442: 2, H0734: 2, H0318: 2, H0052: 2, H0373: 2, H0510: 2, H0266: 2, H0708: 2, H0445: 2, H0656: 1, H0341: 1, H0484: 1, H0662: 1, H0730: 1, H0722: 1, H0728: 1, H0392: 1, H0587: 1, H0559: 1, H0486: 1, S0010: 1, H0581: 1, S0049: 1, H0251: 1, H0545: 1, H0687: 1, H0644: 1, H0617: 1, S0364: 1, H0494: 1, H0633: 1, H0647: 1, S0144: 1, S0422: 1, H0529: 1, L0761: 1, L0773: 1, H0693: 1, H0593: 1, S0126: 1, H0690: 1, H0682: 1, S0406: 1, H0732: 1, L0742: 1, L0743: 1, L0745: 1, S0436: 1, L0594:	19p13	601011, 601011, 601011, 601011, 601768, 601843

203	HBIA/AC40	841235	213	329 - 370	2810		1, S0011: 1, H0542: 1 and H0352: 1. AR060: 6, AR316: 4, AR089: 2 L0439: 18, H0052: 14, L0438: 6, L0741: 5, H0556: 4, S0051: 4, S0036: 4, L0774: 4, H0622: 3, L0769: 3, H0619: 2, H0261: 2, H0318: 2, H0194: 2, L0471: 2, H0538: 2, L0749: 2, L0777: 2, L0757: 2, L0758: 2, L0593: 2, H0624: 1, H0265: 1, H0650: 1, H0657: 1, S0212: 1, S0282: 1, S0045: 1, S0222: 1, H0455: 1, H0559: 1, H0075: 1, H0253: 1, H0251: 1, H0544: 1, H0012: 1, S0050: 1, L0163: 1, H0083: 1, H0594: 1, H0615: 1, T0006: 1, H0708: 1, H0087: 1, H0268: 1, H0056: 1, S0038: 1, H0494: 1, S0450: 1, S0144: 1, L0770: 1, L14747: 1, L0639: 1, L0761: 1, L0775: 1, L0805: 1, L0635: 1, L0788: 1, S0428: 1, S0044: 1, L0612: 1, L0742: 1, L0748: 1, S0011: 1 and H0136: 1.	16p13.3	141750, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 156850, 186580, 191092, 600140, 600273, 601313, 601785
204	HBIA/V56	603529	214	274 - 288	2811		H0318: 1 and S0027: 1.		
205	HBIA/Y14	626591	215	90 - 209	2812	Ser-31 to Lys-39.	H0583: 1, H0318: 1 and H0309: 1.		
206	HBIB/Q69	560602	216	173 - 199	2813		AR089: 5, AR316: 5, AR060: 5 L0766: 5, H0318: 1 and L0649: 1.		
207	HBIB/R40	581104	217	50 - 172	2814	Asp-16 to Glu-27.	H0318: 1		
208	HBIC/H46	609859	218	146 - 334	2815	Lys-25 to Trp-32.	H0318: 1 and S0037: 1.		
209	HBIC/R17	847332	219	55 - 165	2816		AR089: 17, AR316: 13, AR060: 9 L0803: 12, L0766: 10.	3p12-pl1.1	164500, 176880, 232500, 600151, 600795

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210	HBACS26	821682	220	369 - 470	2817	<p>S0044: 1, S0404: 1, S0406: 1, H0436: 1, S0028: 1, L0743: 1, L0747: 1, L0750: 1, L0786: 1, H0445: 1, H0136: 1, S0196: 1 and H0423: 1.</p> <p>AR225: 24, AR296: 22, AR223: 18, AR221: 16, AR224: 15, AR217: 14, AR171: 14, AR168: 12, AR291: 10, AR172: 10, AR215: 9, AR169: 9, AR222: 9, AR216: 9, AR297: 8, AR264: 8, AR214: 8, AR311: 8, AR312: 8, AR252: 7, AR289: 7, AR213: 7, AR170: 7, AR173: 7, AR191: 7, AR309: 6, AR308: 6, AR189: 6, AR313: 6, AR096: 6, AR161: 6, AR162: 6, AR188: 6, AR163: 6, AR263: 6, AR254: 6, AR165: 6, AR295: 6, AR274: 6, AR212: 6, AR238: 6, AR166: 6, AR290: 6, AR164: 6, AR250: 6, AR287: 5, AR196: 5, AR272: 5, AR293: 5, AR240: 5, AR285: 5, AR190: 5, AR174: 5, AR175: 5, AR316: 5, AR288: 5, AR199: 5, AR253: 5, AR229: 4, AR286: 4, AR193: 4, AR053: 4, AR219: 4, AR089: 4, AR256: 4, AR294: 4, AR299: 4, AR237: 4, AR192: 4, AR181: 4.</p>	5	
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211	HBJCW24	805962	221	323 - 403	2818	<p>1, S0212: 1, S0418: 1, S0376: 1, S0360: 1, T0008: 1, H0637: 1, H0580: 1, S0046: 1, H0619: 1, S6026: 1, S0222: 1, H0485: 1, H0669: 1, L0021: 1, H0318: 1, H0381: 1, H0052: 1, T0110: 1, H0150: 1, L0471: 1, T0010: 1, H0356: 1, H0266: 1, H0179: 1, H0271: 1, S0312: 1, H0615: 1, H0688: 1, H0428: 1, H0039: 1, T0006: 1, H0598: 1, H0163: 1, H0616: 1, T0067: 1, H0641: 1, H0646: 1, S0426: 1, L0763: 1, L0769: 1, L0637: 1, L0521: 1, L0767: 1, L0803: 1, L0774: 1, L0653: 1, L0655: 1, L0607: 1, L0634: 1, L0659: 1, L0783: 1, H0144: 1, H0701: 1, H0519: 1, H0593: 1, H0658: 1, H0660: 1, H0666: 1, S0328: 1, H0539: 1, S0378: 1, H0696: 1, S0044: 1, S0028: 1, L0745: 1, L0750: 1, H0445: 1, L0589: 1, L0593: 1, S0011: 1, H0667: 1, S0276: 1, H0542: 1, H0422: 1, S0456: 1 and H0506: 1.</p> <p>H0009: 69, H0144: 63, S0007: 60, H0265: 59, H0556: 56, H0013: 55, H0178: 55, L0748: 55, T0010: 48, H0052: 40, S0010: 38, H0100: 38, L0595: 35, H0124: 32, S0027: 30, H0266: 29, H0341: 28, H0521: 27, L0593: 27, H0031: 26, H0040: 23, L0588: 23, L0591: 23, T0049: 22, H0351: 22, H0083: 22, S0036: 22, H0090: 22, H0318: 20, S0038: 18, H0024: 17, L0439: 17, H0295: 16, S0046: 16, S0049:</p>	
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217	HBJFH84	836997	227	1663 - 1686	2824			2, H0625: 2, L0766: 2, L0659: 2, L0636: 2, H0520: 2, L0748: 2, H0445: 2, L0604: 2, H0653: 2, L0600: 2, S0114: 1, S0134: 1, L0808: 1, H0661: 1, S0442: 1, H0438: 1, T0040: 1, H0156: 1, H0098: 1, H0318: 1, H0581: 1, H0052: 1, S0028: 1, H0388: 1, H0124: 1, S0036: 1, H0591: 1, H0087: 1, H0551: 1, H0056: 1, H0623: 1, L0761: 1, L0772: 1, L0646: 1, L0374: 1, L0764: 1, L0364: 1, L0803: 1, L0655: 1, L0783: 1, L0809: 1, L0665: 1, H0144: 1, H0672: 1, H0522: 1, S0028: 1, L0747: 1, L0749: 1, L0771: 1, L0757: 1, L0594: 1, L0362: 1, S0192: 1, S0276: 1, H0543: 1 and H0423: 1.		190000, 203500, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682
								AR089: 10, AR316: 9, AR060: 8, L0750: 8, H0318: 6, L0764: 6, S0002: 5, L0771: 5, L0665: 5, L0438: 5, L0747: 5, S0442: 4, H0046: 4, L0655: 4, L0809: 4, L0666: 4, L0740: 4, S0356: 3, S0444: 3, H0486: 3, L0646: 3, L0794: 3, L0766: 3, S0360: 2, H0036: 2, S0426: 2, L0372: 2, L0773: 2, L0776: 2, L0659: 2, L0663: 2, H0519: 2, H0555: 2, L0777: 2, S0436: 2, L0596: 2, L0591: 2, L0362: 2, H0542: 2, H0506: 2, S0212: 1, S0045: 1, H0575: 1, H0590: 1, S0010: 1, S0346: 1, H0705: 1, H0581: 1, H0052: 1, T0110: 1, H0597: 1, H0239: 1, H0622: 1, H0644: 1, H0674: 1, H0163: 1, H0591: 1, H0038: 1, H0087: 1, H0100: 1.	4	

218	HBIF14	845228	228	264 - 308	2825																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</
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219	HBJF/26	1306969	229	180 - 359	2826	Gly-15 to Asp-25.	<p>S0474: 1, L0109: 1, H0052: 1, H0251: 1, H0546: 1, H0123: 1, H0050: 1, H0014: 1, S0388: 1, H0266: 1, H0687: 1, S0003: 1, S0022: 1, H0032: 1, H0383: 1, L0453: 1, H0124: 1, S0366: 1, S0036: 1, H0135: 1, H0591: 1, H0616: 1, H0551: 1, H0264: 1, H0268: 1, H0412: 1, H0623: 1, S0112: 1, H0649: 1, H0632: 1, S0144: 1, S0344: 1, L0796: 1, L0639: 1, L0772: 1, L0372: 1, L0644: 1, L0773: 1, L0521: 1, L0522: 1, L0774: 1, L0775: 1, L0606: 1, L0807: 1, L0656: 1, L0518: 1, L0783: 1, L0530: 1, L0789: 1, L0666: 1, L0664: 1, H0691: 1, H0520: 1, H0547: 1, H0365: 1, H0682: 1, H0683: 1, H0638: 1, H0648: 1, S0152: 1, S0044: 1, S0406: 1, L0612: 1, L0744: 1, L0756: 1, S0031: 1, S0011: 1, S0026: 1, S0462: 1, H0506: 1 and H0008: 1.</p> <p>AR309: 21, AR271: 17, AR282: 16, AR272: 16, AR275: 16, AR197: 15, AR060: 15, AR245: 14, AR162: 14, AR161: 14, AR268: 13, AR246: 13, AR291: 13, AR182: 13, AR163: 13, AR198: 13, AR308: 13, AR164: 12, AR165: 12, AR181: 12, AR289: 12, AR166: 12, AR176: 12, AR178: 12, AR312: 12, AR296: 11, AR205: 11, AR183: 11, AR269: 11, AR261: 11, AR175: 11, AR201: 11,</p>
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		873844	2598	851 - 1030	5195	Gly-15 to Asp-25			
220	HBJF83	566478	230	246 - 350	2827		L0771: 4, H0318: 2, L0439: 2, L0758: 2, H0170: 1, L0768: 1, L0549: 1, L0665: 1, L0438: 1, L0611: 1, L0740: 1, L0747: 1, L0756: 1 and L0593: 1.	9q33.1-q33.3	268900
221	HBJF83	852046	231	246 - 350	2828		L0771: 4, H0318: 2, L0439: 2, L0758: 2, H0170: 1, L0768: 1, L0549: 1, L0665: 1, L0438: 1, L0611: 1, L0740: 1, L0747: 1, L0756: 1 and L0593: 1.	9q33.1-q33.3	268900
222	HBJF47	603438	232	423 - 539	2829		H0369: 1 and H0318: 1.		
223	HBJF77	825789	233	354 - 449	2830		L0748: 4, L0596: 2, S0442: 1, H0318: 1, H0178: 1, H0674: 1, S0438: 1, H0647: 1, L0800: 1, L0521: 1, L0766: 1, L0528: 1, H0684: 1, S0406: 1, H0555: 1 and L0752: 1.		
224	HBJF030	637517	234	14 - 247	2831	Lys-65 to Thr-71.	AR060: 17, AR316: 13, AR089: 8, L0803: 2, L0666: 2, H0539: 2, H0402: 1, H0450: 1, H0370: 1, S0182: 1, H0318: 1, L0351: 1, L0521: 1, L0766: 1, L0804: 1, L0651: 1, L0526: 1, L0789: 1, H0672: 1, S0206: 1, L0747: 1, L0756: 1, L0779: 1, L0771: 1, L0731: 1, L0758: 1, L0759: 1 and L0592: 1.	11q22	105580, 133780, 602574, 602574
225	HBJFX41	603437	235	181 - 222	2832	Arg-8 to Asn-13.	AR089: 28, AR316: 23, AR060: 17, H0318: 1.		
226	HBJH083	610259	236	189 - 392	2833		H0318: 1, H0150: 1 and L0385: 1.		
227	HBJHS92	663625	237	121 - 177	2834		S0222: 1 and H0318: 1.		
228	HBJHT01	587262	238	200 - 265	2835		AR060: 4, AR316: 4, AR089: 4, L0667: 2, S0114: 1, H0351: 1, H0318: 1, H0615: 1 and		

229	HBJHT01	580026	239	193 - 336	2836		L0764: 1. AR060: 4, AR316: 4, AR089: 4 L0667: 2, S0114: 1, H0351: 1, H0318: 1, H0615: 1 and L0764: 1.	
230	HBJHW06	724943	240	443 - 550	2837		H0318: 1 and H0038: 1.	17p13.2
231	HBJIR14	793391	241	1800 - 1859	2838		AR060: 9 H0556: 12, L0439: 12, H0266: 11, L0755: 9, H0264: 8, L0766: 8, H0521: 8, L0731: 8, H0634: 7, S0028: 7, L0752: 7, H0012: 6, L0748: 6, L0666: 5, L0754: 5, L0758: 5, S0360: 4, H0623: 4, L0665: 4, L0740: 4, L0750: 4, L0756: 4, L0591: 4, H0265: 3, H0638: 3, H0620: 3, H0135: 3, H0163: 3, H0040: 3, H0551: 3, H0100: 3, S0002: 3, L0769: 3, S0052: 3, H0144: 3, S0126: 3, S3014: 3, H0650: 2, H0305: 2, S0278: 2, H0333: 2, H0632: 2, H0485: 2, T0040: 2, H0013: 2, H0069: 2, H0635: 2, H0575: 2, H0318: 2, H0009: 2, H0123: 2, S0022: 2, H0622: 2, H0553: 2, H0617: 2, H0068: 2, H0038: 2, H0616: 2, H0268: 2, H0561: 2, S0370: 2, H0130: 2, S0142: 2, L0770: 2, L0771: 2, L0662: 2, L0657: 2, L0664: 2, H0518: 2, S0152: 2, H0522: 2, H0555: 2, H0576: 2, L0749: 2, L0605: 2, L0599: 2, H0624: 1, H0140: 1, H0685: 1, H0717: 1, H0295: 1, H0662: 1, H0459: 1, S0418: 1, S0420: 1, S0358: 1, S0376: 1, S0408: 1, S0476: 1, H0645: 1, H0549: 1, H0550:	

232	HBIIA26	743181	242	236 - 325	2839			1, H0370: 1, H0600: 1, H0586: 1, H0497: 1, H0559: 1, T0114: 1, H0156: 1, L0021: 1, H0025: 1, T0082: 1, H0706: 1, H0590: 1, T0048: 1, H0581: 1, H0052: 1, L0040: 1, L0719: 1, H0544: 1, H0545: 1, H0150: 1, H0024: 1, L0163: 1, S0388: 1, H0083: 1, H0271: 1, H0416: 1, H0188: 1, H0615: 1, H0039: 1, H0030: 1, H0644: 1, H0628: 1, H0606: 1, H0032: 1, H0383: 1, H0212: 1, H0598: 1, H0591: 1, H0063: 1, H0059: 1, T0041: 1, H0429: 1, H0641: 1, H0633: 1, S0144: 1, S0344: 1, H0538: 1, S0208: 1, L0598: 1, L0638: 1, L5575: 1, L0761: 1, L0372: 1, L0768: 1, L0649: 1, L0560: 1, L0386: 1, L0775: 1, L0806: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0379: 1, L0807: 1, L0659: 1, L0517: 1, L0518: 1, L0783: 1, L0519: 1, L0647: 1, L0789: 1, L0790: 1, L0663: 1, H0547: 1, H0684: 1, H0435: 1, H0670: 1, H0648: 1, H0672: 1, S0404: 1, H0478: 1, S0390: 1, S0027: 1, S0032: 1, L0743: 1, L0744: 1, L0757: 1, L0759: 1, H0707: 1, S0434: 1, H0136: 1, S0196: 1, H0542: 1, H0423: 1, H0422: 1 and H0293: 1.
232	HBIIA26	743181	242	236 - 325	2839			1, H0370: 1, H0600: 1, H0586: 1, H0497: 1, H0559: 1, T0114: 1, H0156: 1, L0021: 1, H0025: 1, T0082: 1, H0706: 1, H0590: 1, T0048: 1, H0581: 1, H0052: 1, L0040: 1, L0719: 1, H0544: 1, H0545: 1, H0150: 1, H0024: 1, L0163: 1, S0388: 1, H0083: 1, H0271: 1, H0416: 1, H0188: 1, H0615: 1, H0039: 1, H0030: 1, H0644: 1, H0628: 1, H0606: 1, H0032: 1, H0383: 1, H0212: 1, H0598: 1, H0591: 1, H0063: 1, H0059: 1, T0041: 1, H0429: 1, H0641: 1, H0633: 1, S0144: 1, S0344: 1, H0538: 1, S0208: 1, L0598: 1, L0638: 1, L5575: 1, L0761: 1, L0372: 1, L0768: 1, L0649: 1, L0560: 1, L0386: 1, L0775: 1, L0806: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0379: 1, L0807: 1, L0659: 1, L0517: 1, L0518: 1, L0783: 1, L0519: 1, L0647: 1, L0789: 1, L0790: 1, L0663: 1, H0547: 1, H0684: 1, H0435: 1, H0670: 1, H0648: 1, H0672: 1, S0404: 1, H0478: 1, S0390: 1, S0027: 1, S0032: 1, L0743: 1, L0744: 1, L0757: 1, L0759: 1, H0707: 1, S0434: 1, H0136: 1, S0196: 1, H0542: 1, H0423: 1, H0422: 1 and H0293: 1.
233	HBIIA26	612069	243	228 - 338	2840		Arg-17 to Glu-31.	H0312: 1 and H0318: 1. H0318: 1
234	HBIIH78	839735	244	284 - 340	2841			AR060: 6, AR316: 5, AR089: 3
235	HBIND04	837242	245	309 - 1355	2842		Arg-23 to Gly-29, Ser-52 to Glu-74,	H0318: 1 and H0445: 1. AR089: 19, AR316: 15, AR060: 10

						Ser-76 to Lys-82, Glu-88 to Pro-94, Pro-111 to Gly-127, Glu-130 to Gly-136, Ile-140 to Gly-150, Trp-176 to Asn-183, Lys-201 to Gly-206, Leu-223 to Gly-230, Leu-237 to Leu-251, Val-267 to Asp-274.	H0046: 16, L0803: 14, L0439: 5, L0794: 4, L0804: 4, L0809: 3, L0777: 3, L0759: 3, S0358: 2, H0318: 2, H0553: 2, H0169: 2, L0770: 2, L0771: 2, L0666: 2, L0664: 2, L0754: 2, L0750: 2, L0752: 2, L0731: 2, S0436: 2, S0134: 1, H0656: 1, S0116: 1, H0669: 1, S0418: 1, S0442: 1, S0444: 1, S0046: 1, H0393: 1, S0300: 1, S0222: 1, H0441: 1, H0575: 1, T0082: 1, S0346: 1, L0105: 1, H0032: 1, L0471: 1, H0039: 1, H0628: 1, H0032: 1, H0674: 1, H0598: 1, H0268: 1, H0560: 1, H0509: 1, L0769: 1, L0773: 1, L0662: 1, L0363: 1, L0774: 1, L0375: 1, L0651: 1, L0654: 1, L0655: 1, L0782: 1, L0519: 1, L0544: 1, L0791: 1, L0663: 1, L0665: 1, L0438: 1, H0547: 1, H0593: 1, H0435: 1, S0378: 1, H0696: 1, L0758: 1, L0608: 1, H0653: 1 and S0242: 1.
236	HBIND57	612785	246	20 - 124	2843	Glu-29 to Asn-34.	H0318: 1, H0264: 1 and S0426: 1.
237	HBKDF66	827276	247	222 - 311	2844		S0366: 1, L0769: 1 and L0790: 1.
238	HBKEA94	827277	248	56 - 232	2845	His-41 to Gly-46.	AR089: 13, AR316: 11, AR060: 8 H0733: 6, S0364: 6, S0366: 6, H0729: 4, L0623: 3, H0708: 3, L0777: 3, H0728: 2, H0706: 2, H0644: 2, L0794: 2, L0750: 2, S0116: 1, S0212: 1, H0586: 1, L0622: 1, H0122: 1, H0581: 1, S0049: 1, H0018: 1, L0644: 1, L0789: 1, H0732: 1 and L0779: 1.

239	HBKE60	793788	249	47 - 295	2846				S0366: 1 and H0598: 1.				
240	HBKE141	827278	250	441 - 812	2847	Thr-115 to Ala-123.			AR196: 7, AR235: 6, AR188: 6, AR309: 6, AR191: 5, AR285: 5, AR053: 5, AR311: 5, AR313: 5, AR312: 5, AR180: 5, AR190: 5, AR236: 5, AR189: 5, AR193: 5, AR183: 5, AR089: 5, AR219: 4, AR161: 4, AR162: 4, AR213: 4, AR263: 4, AR096: 4, AR253: 4, AR164: 4, AR163: 4, AR165: 4, AR178: 4, AR290: 4, AR214: 4, AR269: 4, AR172: 4, AR175: 4, AR205: 4, AR282: 4, AR224: 4, AR212: 4, AR166: 4, AR264: 4, AR308: 4, AR275: 4, AR270: 4, AR297: 4, AR039: 4, AR168: 4, AR261: 4, AR287: 3, AR268: 3, AR291: 3, AR174: 3, AR257: 3, AR262: 3, AR226: 3, AR177: 3, AR295: 3, AR288: 3, AR271: 3, AR299: 3, AR199: 3, AR250: 3, AR060: 3, AR182: 3, AR258: 3, AR245: 3, AR201: 3, AR316: 3, AR293: 3, AR218: 3, AR252: 3, AR195: 3, AR203: 3, AR300: 3, AR185: 3, AR294: 3, AR260: 3, AR274: 3, AR179: 3, AR181: 3.				

241	HBMBD51	842176	251	413 - 631	2848		AR277: 3, AR173: 3, AR254: 3, AR104: 3, AR197: 3, AR238: 3, AR286: 3, AR255: 2, AR033: 2, AR246: 2, AR266: 2, AR200: 2, AR296: 2, AR223: 2, AR237: 2, AR247: 2, AR231: 2, AR234: 2, AR267: 2, AR233: 2, AR242: 2, AR232: 2, AR227: 2, AR228: 2, AR240: 2, AR239: 2, AR283: 2, AR225: 2, AR217: 2, AR211: 2, AR171: 2, AR229: 2, AR210: 1, AR055: 1, AR272: 1, AR216: 1, AR061: 1, AR289: 1, L0777: 3, H0624: 2, S0366: 2, L0779: 2, L0759: 2, L0604: 2, H0171: 1, H0149: 1, H0729: 1, H0741: 1, L0622: 1, L0623: 1, H0546: 1, H0213: 1, S0364: 1, H0708: 1 and L0636: 1.	
							H0421: 1, L0118: 1, H0271: 1, S0448: 1, L0766: 1, S0216: 1, H0539: 1 and L0748: 1.	
242	HBMBD73	839564	252	4310 - 4351	2849		AR089: 28, AR316: 23, AR060: 18 L0439: 20, L0748: 16, L0438: 14, L0740: 12, L0731: 10, L0659: 9, L0803: 7, L0738: 7, L0759: 6, L0794: 5, H0050: 4, H0242: 4, L0471: 4, L0756: 4, L0779: 4, L0777: 4, L0757: 4, H0013: 3, H0599: 3, H0052: 3, T0010: 3, H0038: 3, L0770: 3, L0771: 3, L0775: 3, L0655: 3, L0809: 3, L0663: 3.	

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248	HBMQ74	864382	258	1815 - 1877	2855				1, H0250: 1, S0280: 1, H0122: 1, H0004: 1, L0105: 1, H0318: 1, H0421: 1, H0196: 1, H0251: 1, H0046: 1, H0439: 1, L0471: 1, H0057: 1, H0015: 1, H0373: 1, H0083: 1, H0354: 1, H0266: 1, S0250: 1, S0003: 1, S0214: 1, H0252: 1, H0615: 1, L0483: 1, H0628: 1, H0598: 1, H0163: 1, H0591: 1, H0062: 1, H0551: 1, T0041: 1, H0560: 1, S0466: 1, H0130: 1, H0641: 1, H0646: 1, H0649: 1, S0210: 1, S0002: 1, H0695: 1, L0646: 1, L0648: 1, L0794: 1, L0803: 1, L0774: 1, L0784: 1, L0805: 1, L0655: 1, L0607: 1, L0527: 1, L0657: 1, L0659: 1, L0783: 1, L0809: 1, L0666: 1, L0664: 1, S0052: 1, S0428: 1, H0144: 1, H0365: 1, H0435: 1, H0651: 1, S0330: 1, S0380: 1, S0350: 1, H0436: 1, S0028: 1, L0748: 1, L0749: 1, L0756: 1, L0777: 1, S0260: 1, L0590: 1, L0591: 1, H0667: 1 and L0697: 1.		3q25	106165, 222900, 276902
									AR060: 4, AR316: 4, AR089: 4 L0731: 17, L0766: 15, H0521: 15, H0457: 13, L0740: 9, H0486: 8, S0358: 6, S0474: 6, L0747: 6, H0423: 6, H0581: 5, L0754: 5, H0638: 4, L0779: 4, H0445: 4, S0134: 3, S0045: 3, S0374: 3, L0757: 3, L0485: 3, H0422: 3, S0040: 2, H0583: 2, S0360: 2, H0586: 2, H0574: 2, H0575: 2, H0050: 2, H0014: 2, H0328: 2, H0316: 2, S0036: 2, H0090: 2, S0422: 2, L0369: 2.			

249	HBMCT40	824053	259	184 - 432	2856	Glu-42 to Thr-47, Gln-49 to His-57.	2, L0764: 2, L0662: 2, L0792: 2, L0663: 2, L0665: 2, L0565: 2, H0519: 2, S0328: 2, H0518: 2, L0750: 2, L0758: 2, H0668: 2, H0624: 1, H0170: 1, H0171: 1, T0002: 1, S0114: 1, H0650: 1, H0657: 1, H0656: 1, H0341: 1, S0282: 1, H0669: 1, H0458: 1, H0459: 1, S0356: 1, S0132: 1, H0411: 1, S0222: 1, H0600: 1, H0592: 1, H0587: 1, T0039: 1, H0250: 1, S0280: 1, H0122: 1, H0004: 1, L0105: 1, H0318: 1, H0421: 1, H0196: 1, H0251: 1, H0046: 1, H0439: 1, L0471: 1, H0057: 1, H0015: 1, H0373: 1, H0083: 1, H0354: 1, H0266: 1, S0250: 1, S0003: 1, S0214: 1, H0252: 1, H0615: 1, L0483: 1, H0628: 1, H0598: 1, H0163: 1, H0591: 1, H0062: 1, H0551: 1, T0041: 1, H0560: 1, S0466: 1, H0130: 1, H0641: 1, H0646: 1, H0649: 1, S0210: 1, S0002: 1, H0695: 1, L0646: 1, L0648: 1, L0794: 1, L0803: 1, L0774: 1, L0784: 1, L0805: 1, L0655: 1, L0607: 1, L0527: 1, L0657: 1, L0659: 1, L0783: 1, L0809: 1, L0666: 1, L0664: 1, S0052: 1, S0428: 1, H0144: 1, H0365: 1, H0435: 1, H0651: 1, S0330: 1, S0380: 1, S0350: 1, H0436: 1, S0028: 1, L0748: 1, L0749: 1, L0756: 1, L0777: 1, S0260: 1, L0590: 1, L0591: 1, H0667: 1 and L0697: 1.	Inter-p31.2
						AR089: 15, AR316: 13, AR060: 12 L0748: 16, L0758: 10.		

250	HBMDM08	837927	260	505 - 975	2857	Asp-85 to Arg-92, Ala-107 to Glu-116.	S0102: 1, S0028: 1, L0744: 1, L0779: 1, L0752: 1, S0394: 1, L0588: 1, L0608: 1, L0601: 1, H0667: 1, S0192: 1, S0276: 1 and S0196: 1.	3p25.3-3p24.1	193300, 193300, 227646, 601154
251	HBMSN62	787680	261	193 - 288	2858		H0421: 1 L0754: 4, L0766: 3, L0803: 3, H0648: 3, L0758: 3, L0800: 2, L0775: 2, L0666: 2, L0747: 2, L0779: 2, S0116: 1, S0358: 1, H0574: 1, L0021: 1, L0022: 1, S0003: 1, H0615: 1, L0351: 1, L0667: 1, L0764: 1, L0768: 1, L0806: 1, L0379: 1, L0659: 1, L0647: 1, L0791: 1, L0792: 1, L0663: 1, L0664: 1, L0665: 1, S0330: 1, L0748: 1, L0439: 1, L0777: 1 and L0599: 1.	4	
252	HBMSO30	843389	262	172 - 225	2859		S0116: 1		
253	HBMTM50	609988	263	44 - 58	2860		L0439: 12, L0731: 11, L0754: 10, L0438: 8, L0750: 8, L0766: 7, L0752: 6, L0758: 6, L0759: 5, S0212: 4, H0266: 4, L0774: 4, L0748: 4, L0751: 4, L0747: 4, H0556: 3, S0046: 3, L0775: 3, L0659: 3, L0779: 3, L0588: 3, S0420: 2, S0360: 2, H0333: 2, H0052: 2, T0010: 2, H0083: 2, H0428: 2, T0041: 2, L0769: 2, L0772: 2, L0646: 2, L0773: 2, L0649: 2, L0806: 2, L0509: 2, L0655: 2, L0606: 2, H0659: 2, H0521: 2, L0740: 2, L0756: 2, L0755: 2, L0757: 2, L0581: 2, L0608: 2, H0170: 1, S0040: 1, S0114: 1, T0049: 1, L0002: 1, H0657: 1, S0116: 1, H0663: 1, S0418: 1, S0354: 1, S0358: 1, S0222: 1, H0392:		

254	HBMUD59	701970	264	270 - 650	2861	Arg-31 to Cys-38, Thr-69 to Thr-76, Pro-94 to Glu-100, Ile-114 to Glu-120.	<p>AR202: 69, AR281: 63, AR194: 61, AR246: 54, AR205: 51, AR039: 49, AR206: 47, AR198: 45, AR192: 40, AR204: 40, AR315: 39, AR244: 37, AR243: 34, AR283: 32, AR053: 32, AR280: 31, AR265: 31, AR271: 31, AR314: 31, AR299: 30, AR089: 30, AR241: 30, AR213: 29, AR035: 29, AR282: 28, AR263: 28, AR277: 27, AR096: 26, AR310: 26, AR300: 26, AR275: 26, AR316: 26, AR055: 26, AR104: 25, AR274: 24, AR052: 23, AR232: 23, AR060: 23, AR251: 22, AR247: 22, AR295: 21, AR177: 20,</p>	<p>1, H0586: 1, H0427: 1, H0156: 1, L0021: 1, H0004: 1, S0010: 1, H0581: 1, L2250: 1, H0545: 1, L0471: 1, H0012: 1, S0050: 1, L0163: 1, H0687: 1, S0338: 1, H0039: 1, T0023: 1, T0006: 1, H0644: 1, H0040: 1, H0616: 1, H0494: 1, S0294: 1, H0646: 1, S0344: 1, H0538: 1, S0210: 1, L0520: 1, L0770: 1, L0642: 1, L0645: 1, L0764: 1, L0662: 1, L0375: 1, L0513: 1, L0782: 1, L0783: 1, L0647: 1, L0663: 1, H0520: 1, H0519: 1, H0593: 1, H0682: 1, H0539: 1, H0154: 1, S0027: 1, L0749: 1, L0777: 1, L0753: 1, S0260: 1, L0485: 1, H0668: 1, H0667: 1, S0276: 1 and S0424: 1.</p>	<p>141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 156850, 186580, 191092, 600140, 600273, 601313, 601785</p>
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Abstract

AR312: 20, AR273: 20, AR309: 18, AR313: 18, AR240: 18, AR186: 17, AR292: 17, AR266: 16, AR218: 16, AR185: 15, AR238: 15, AR234: 14, AR284: 14, AR227: 14, AR294: 14, AR175: 13, AR256: 13, AR061: 13, AR219: 12, AR253: 12, AR231: 12, AR293: 12, AR248: 12, AR183: 12, AR286: 12, AR237: 12, AR269: 11, AR233: 11, AR291: 11, AR296: 11, AR289: 11, AR259: 11, AR229: 11, AR258: 10, AR298: 10, AR226: 10, AR285: 10, AR270: 10, AR268: 10, AR249: 9, AR290: 8, AR182: 8, AR267: 7, AR184: 6, AR179: 6 L0794: 6, L0803: 6, L0663: 5, L0758: 5, H0617: 4, L0731: 4, L0804: 3, L0806: 3, L0665: 3, L0439: 3, L0747: 3, H0556: 2, S0360: 2, H0581: 2, H0424: 2, L0769: 2, L0662: 2, L0768: 2, L0809: 2, L0791: 2, H0684: 2, S0380: 2, L0743: 2, L0744: 2, L0748: 2, L0740: 2, L0756: 2, H0265: 1, T0002: 1, H0294: 1, S0114: 1, S0134: 1, S0116: 1, S0418: 1, S0354: 1, S0300: 1, S0278: 1, S0222: 1, L0021: 1, H0032: 1, H0546: 1, H0545: 1, H0081: 1, H0050: 1, L0471: 1, H0012: 1, H0275: 1, H0687: 1, H0030: 1, H0644: 1, H0182:

255	HBMUJ10	566764	265	249 - 368	2862	Tyr-5 to Leu-10.	1, H0674: 1, H0551: 1, H0059: 1, T0041: 1, H0494: 1, L0763: 1, L0761: 1, L0646: 1, L0374: 1, L0644: 1, L0764: 1, L0771: 1, L0649: 1, L0659: 1, L0542: 1, L0783: 1, L0789: 1, L0790: 1, L0792: 1, L0666: 1, S0216: 1, L0352: 1, H0547: 1, H0670: 1, S0330: 1, S0406: 1, L0749: 1, L0755: 1, H0445: 1, S0436: 1, L0603: 1, H0542: 1 and H0506: 1.		
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256	HBMUJ48	580808	266	180 - 254	2863		AR060: 7, AR316: 6, AR089: 4 L0748: 7, L0740: 4, L0439: 3, L0779: 3, L0731: 3, L0759: 3, L0589: 3, L0591: 3, H0556: 2, T0006: 2, H0264: 2, H0056: 2, L0770: 2, L0774: 2, L0775: 2, L0776: 2, L0438: 2, L0754: 2, L0747: 2, L0749: 2, L0599: 2, S0116: 1, H0486: 1, H0618: 1, T0110: 1, H0009: 1, H0252:		

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257	HBMUR39	647594	267	135 - 206	2864		AR089: 18, AR316: 14, AR060: 11, S0116: 1 and L0748: 1.			
258	HBMVVF65	609348	268	179 - 295	2865		L0803: 2, L0526: 2, S0116: 1, S0028: 1, L0627: 1, L0777: 1, L0759: 1, L0608: 1, S0026: 1 and S0462: 1.			
259	HBMVVF65	847789	269	382 - 498	2866		L0803: 2, L0526: 2, S0116: 1, S0028: 1, L0627: 1, L0777: 1, L0759: 1, L0608: 1, S0026: 1 and S0462: 1.			
260	HBMWVC39	523713	270	112 - 168	2867		H0590: 2, S0002: 2, S0126: 2, H0521: 2, H0265: 1, T0049: 1, S0116: 1, H0638: 1, S0360: 1, H0004: 1, H0030: 1, T0041: 1, S0344: 1, L0794: 1, L0766: 1, L0806: 1, L0805: 1, L0543: 1, L0749: 1, H0136: 1 and H0423: 1.			
261	HBMWJ92	701971	271	82 - 204	2868		L0587: 2, H0170: 1, S0116: 1, S0442: 1, H0431: 1, H0574: 1, H0318: 1 and H0615: 1.			
262	HBMWS32	872553	272	19 - 126	2869		S0116: 1			
263	HBMXE34	834497	273	301 - 336	2870		AR089: 10, AR316: 10, AR060: 10, L0740: 4, H0616: 3, H0056: 3, L0803: 3, L0659: 3, L0666: 3, L0758: 3, L0005: 2, L0717: 2, H0032: 2, L0455: 2, L0598: 2, L0800: 2, L0771: 2, L0766: 2, L0663: 2, L0665: 2, L0438: 2, L0748: 2, L0759: 2, H0686: 1, H0583: 1, S0116: 1, H0638: 1.	12		

264	HBMXG01	689522	274	261 - 335	2871			1, S0348: 1, S0354: 1, S0476: 1, S0222: 1, H0431: 1, L0021: 1, S0010: 1, H0318: 1, L0738: 1, H0545: 1, S0050: 1, S0051: 1, H0688: 1, H0428: 1, H0553: 1, H0124: 1, H0090: 1, H0591: 1, H0038: 1, H0488: 1, S0448: 1, S0440: 1, S0002: 1, L0770: 1, L0646: 1, L0764: 1, L0649: 1, L0804: 1, L0653: 1, L0776: 1, L0807: 1, L0542: 1, L0526: 1, L0518: 1, L0809: 1, S0374: 1, H0519: 1, H0435: 1, H0521: 1, H0696: 1, L0751: 1, L0747: 1, L0780: 1, S0260: 1, S0434: 1, L0595: 1, H0665: 1, S0242: 1, L0698: 1 and H0506: 1.	
265	HBMXG76	580812	275	71 - 151	2872			S0116: 1 AR060: 7, AR316: 5, AR089: 3 S0116: 1	
266	HBMXM05	842283	276	20 - 133	2873	Asn-28 to Asn-37.		L0748: 6, S0114: 1, S0116: 1, H0431: 1, H0313: 1, L0740: 1, L0749: 1, L0758: 1 and S0260: 1.	
267	HBMXW83	725335	277	16 - 135	2874			S0410: 9, L0803: 5, L0809: 4, L0756: 3, L0759: 3, H0171: 2, S0116: 2, H0586: 2, S0003: 2, L0769: 2, L0662: 2, L0805: 2, L0653: 2, H0520: 2, L0749: 2, L0779: 2, L0777: 2, L0752: 2, L0757: 2, S0026: 2, H0661: 1, H0664: 1, H0402: 1, H0675: 1, S0045: 1, H0632: 1, H0599: 1, H0510: 1, H0316: 1, H0591: 1, H0625: 1, S0464: 1, L0763: 1, L0638: 1, L0646: 1, L0800: 1, L0771: 1, L0521: 1, L0768: 1, L0766: 1, L0649: 1, L0389: 1, L0388: 1, L0804: 1, L0774: 1.	6p12 180297, 230450, 263200, 601690

268	HBNAE74	637524	278	203 - 208	2875			<p>1, L0775: 1, L0806: 1, L0606: 1, L0659: 1, L0788: 1, L5286: 1, L0666: 1, L0663: 1, L0665: 1, S0374: 1, L0748: 1, L0731: 1, S0434: 1 and H0422: 1.</p> <p>AR000: 5, AR316: 4, AR089: 3</p> <p>H0441: 3, L0806: 2, L0663: 2, L0750: 2, H0188: 1, H0688: 1, H0428: 1, L0483: 1, L0794: 1, S0028: 1, L0749: 1, L0777: 1 and L0758: 1.</p>	<p>1p36, 11-p34, 2</p>	<p>120550, 120570, 120575, 121800, 130500, 133200, 138140, 171760, 171760, 255800, 600975</p>
269	HBNAX16	843727	279	2711 - 3157	2876	<p>Gly-62 to Gly-69, Pro-96 to Asp-102.</p>		<p>H0271: 10, H0556: 7, L0731: 7, H0494: 5, L0766: 5, L0777: 5, H0622: 4, L0805: 4, L0741: 4, L0743: 4, L0744: 4, L0749: 4, H0619: 3, H0333: 3, H0179: 3, H0416: 3, S0440: 3, L0804: 3, H0519: 3, H0539: 3, H0521: 3, L0740: 3, L0758: 3, H0542: 3, H0543: 3, H0458: 2, L0717: 2, H0592: 2, H0618: 2, H0318: 2, T0041: 2, H0529: 2, L0769: 2, L0667: 2, L0643: 2, L0521: 2, L0794: 2, L0776: 2, L0659: 2, L0789: 2, H0520: 2, S0126: 2, S0314: 2, L0742: 2, L0747: 2, L0755: 2, L0759: 2, L0591: 2, L0581: 2, H0624: 1, S0040: 1, S0342: 1, S0402: 1, S0114: 1, S0134: 1, H0656: 1, H0255: 1, H0661: 1, H0402: 1, H0638: 1, S0420: 1, S0354: 1, S0360: 1, S0132: 1, S0626: 1, H0549: 1, S0222: 1, S6014: 1, H0392: 1, H0455: 1, H0642: 1, H0331: 1, H0632: 1, T0040: 1, H0013: 1, H0599: 1, L0022: 1, H0581: 1, S0049: 1, H0052: 1, H0251: 1, H0204: 1, H0544: 1, H0046:</p>	16	

270	HBNAZ35	840687	280	519 - 542	2877			1, H0457: 1, L0157: 1, H0050: 1, H0014: 1, S0051: 1, H0099: 1, H0188: 1, H0288: 1, H0286: 1, H0428: 1, L0483: 1, H0031: 1, H0553: 1, H0181: 1, H0617: 1, S0366: 1, H0040: 1, H0616: 1, H0551: 1, H0623: 1, T0042: 1, L0475: 1, H0334: 1, H0560: 1, H0625: 1, H0509: 1, H0647: 1, H0646: 1, S0344: 1, H0538: 1, L0762: 1, L0763: 1, L0637: 1, L0372: 1, L0800: 1, L0626: 1, L0803: 1, L0774: 1, L0378: 1, L0655: 1, L0657: 1, L0809: 1, L0647: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0690: 1, H0672: 1, H0709: 1, H0696: 1, H0187: 1, H0436: 1, H0478: 1, S0037: 1, S0028: 1, L0439: 1, L0779: 1, L0780: 1, L0752: 1, S0031: 1, S0434: 1, S0436: 1, L0595: 1, L0601: 1, S0011: 1, H0668: 1 and H0677: 1.
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271	HBODK40	852382	281	338 - 370	2878			AR089: 5, AR316: 4, AR060: 3 L0748: 5, H0457: 3, L0764: 3, L0766: 3, L0749: 3, S0360: 2, H0658: 2, L0439: 2, H0624: 1, H0657: 1, H0656: 1, S0358: 1, H0208: 1, H0581: 1, H0052: 1, H0024: 1, H0617: 1, S0364: 1, T0041: 1, S0440: 1, S0344: 1, S0002: 1, L0667: 1, L0646: 1, L0771: 1, L0768: 1, L0794: 1, L0515: 1, L0809: 1, L0664: 1, L0665: 1, L0438: 1, S0330:

272	HBODV76	866420	282	303 - 329	2879				1, H0696: 1, S0406: 1, L0756: 1, L0779: 1, L0777: 1, L0758: 1, S0031: 1 and H0422: 1. L0604: 28, L0747: 16. S0364: 14, L0750: 12, L0485: 11, S0366: 10, H0708: 8, H0723: 8, H0171: 6, H0706: 6, H0144: 6, L0809: 5, L0777: 5, H0170: 4, L0520: 4, H0725: 4, H0624: 3, L0375: 3, L0471: 2, S0362: 2, H0616: 2, L0759: 2, L0623: 1, H0013: 1, H0041: 1, H0050: 1, H0373: 1, L0163: 1, S0294: 1, L0776: 1, L0783: 1, L0790: 1, L0791: 1 and L0749: 1.	2p14-q14.3	203800
273	HBPAD89	637525	283	74 - 121	2880				H0556: 14, L0439: 14, H0265: 12, L0747: 10, H0529: 9, H0144: 9, H0657: 8, H0333: 8, L0731: 8, L0770: 7, L0809: 7, H0547: 7, H0521: 7, L0748: 7, H0341: 6, L0776: 6, H0650: 5, S0410: 5, H0024: 5, H0135: 5, H0040: 5, H0494: 5, L0766: 5, L0657: 5, L0666: 5, S0152: 5, L0740: 5, L0779: 5, L0758: 5, H0542: 5, S0418: 4, S0444: 4, S0045: 4, H0318: 4, H0123: 4, S0022: 4, H0032: 4, H0124: 4, H0413: 4, L0764: 4, L0375: 4, L0659: 4, L0749: 4, L0752: 4, L0595: 4, H0543: 4, H0295: 3, S0420: 3, H0549: 3, H0013: 3, H0581: 3, H0052: 3, H0251: 3, L0471: 3, H0012: 3, H0594: 3, H0039: 3, H0622: 3, H0644: 3, H0551: 3, L0475: 3, L0369: 3, L0769: 3, L0521: 3, L0804: 3, L0774: 3, L0663: 3, S0126: 3, S0044: 3, S0406: 3, S0027: 3.		

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274	HBPALF39	850786	284	119 - 175	2881				1, H0674: 1, L0455: 1, H0708: 1, H0688: 1, S0036: 1, H0163: 1, H0591: 1, H0087: 1, H0116: 1, H0477: 1, H0264: 1, H0272: 1, H0412: 1, L0564: 1, H0560: 1, S0440: 1, S0150: 1, H0538: 1, S0422: 1, S0002: 1, L0640: 1, L0763: 1, L0637: 1, L3904: 1, L0667: 1, L0772: 1, L0373: 1, L0641: 1, L0374: 1, L0768: 1, L0381: 1, L0803: 1, L0775: 1, L0805: 1, L0661: 1, L0526: 1, L0518: 1, L0782: 1, L0383: 1, L0382: 1, L0519: 1, L0544: 1, L0789: 1, L0791: 1, L0664: 1, H0698: 1, S0374: 1, H0723: 1, S0148: 1, H0519: 1, H0689: 1, H0658: 1, S0330: 1, L0602: 1, H0518: 1, H0522: 1, S0404: 1, S0392: 1, H0627: 1, L0742: 1, L0751: 1, L0756: 1, L0777: 1, L0592: 1, L0361: 1, L0366: 1, S0011: 1, H0668: 1, H0667: 1, S0424: 1, S0462: 1, H0008: 1 and H0352: 1.		
									AR089: 10, AR316: 8, AR060: 7, S0114: 2, S0030: 1, S0051: 1, S0053: 1 and L0599: 1.		
275	HBQAC45	723505	285	292 - 315	2882				AR060: 7, AR316: 6, AR089: 5, H0229: 1		
276	HBQAC72	799512	286	741 - 974	2883	Thr-49 to Gly-55, Ser-70 to Glu-77.			AR060: 4, AR316: 4, AR089: 4, H0229: 1 and S6028: 1, H0229: 1 and H0123: 1.	103600, 103600, 103600, 104150, 104150, 104500, 125490, 164920, 164920, 164920,	
277	HBQAE37	637526	287	208 - 321	2884				4q12-q13.3		

279	HBSA163	835454	289	183 - 371	2886	<p>1, H0616: 1, H0264: 1, H0268: 1, H0117: 1, S0038: 1, H0100: 1, L0351: 1, L0435: 1, T0041: 1, T0042: 1, S0448: 1, S0142: 1, S0002: 1, H0529: 1, L0796: 1, L0639: 1, L5575: 1, L5566: 1, L0761: 1, L0374: 1, L0648: 1, L0768: 1, L0649: 1, L0803: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0659: 1, L0526: 1, L0783: 1, L0793: 1, H0144: 1, H0690: 1, H0660: 1, S0330: 1, H0539: 1, S0378: 1, S0152: 1, H0522: 1, H0694: 1, H0555: 1, S3012: 1, S0390: 1, S3014: 1, S0028: 1, L0743: 1, L0779: 1, L0752: 1, H0444: 1, S0436: 1, L0581: 1, H0543: 1, H0423: 1, S0458: 1 and H0506: 1.</p> <p>H0253: 3, L0439: 3, L0769: 7, H0618: 6, L0758: 6, H0052: 5, L0749: 5, H0617: 4, H0135: 4, L0766: 4, S0406: 4, S0001: 3, H0255: 3, S0410: 3, H0619: 3, S0422: 3, L0775: 3, L0378: 3, H0547: 3, H0521: 3, L0742: 3, L0750: 3, L0755: 3, L0757: 3, S0434: 3, L0605: 3, H0381: 3, H0419: 2, H0341: 2, S0420: 2, H0550: 2, H0438: 2, H0599: 2, H0318: 2, H0046: 2, H0050: 2, H0012: 2, H0024: 2, S0050: 2, T0010: 2, L0455: 2, H0412: 2, H0413: 2, H0494: 2, L0772: 2, L0645: 2, L0764: 2, L0771: 2, L0662: 2, L0666: 2, L0665: 2, L0438: 2, H0520: 2, H0519: 2, H0134: 2, L0741: 2, L0748: 2, L0751: 2, L0747: 2, L0777: 2, L0759: 2, H0445: 2, L0596: 2.</p>	11p1.2-p11.12	133701, 168500, 171650, 176930, 176930, 600623, 600811, 600958
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280	HBSDD24	839802	290	833 - 961	2887	<p>2, L0603: 2, L0411: 1, H0556: 1, S0114: 1, S0218: 1, H0656: 1, S0116: 1, H0125: 1, S0418: 1, S0354: 1, S0360: 1, H0729: 1, H0730: 1, H0722: 1, H0728: 1, H0733: 1, L0717: 1, S0278: 1, H0549: 1, H0370: 1, H0392: 1, H0613: 1, H0013: 1, H0427: 1, H0575: 1, T0082: 1, H0706: 1, H0036: 1, H0421: 1, S0049: 1, H0194: 1, H0085: 1, H0231: 1, L0041: 1, H0041: 1, H0009: 1, L00123: 1, H0620: 1, H0199: 1, H0246: 1, H0014: 1, L0163: 1, H0594: 1, S0628: 1, H0266: 1, H0188: 1, H0687: 1, H0288: 1, H0033: 1, H0181: 1, S0364: 1, S0366: 1, S0036: 1, H0038: 1, H0616: 1, H0264: 1, H0268: 1, H0117: 1, S0038: 1, H0100: 1, L0351: 1, L0435: 1, T0041: 1, T0042: 1, S0448: 1, S0142: 1, S0002: 1, H0529: 1, L0796: 1, L0639: 1, L5575: 1, L5566: 1, L0761: 1, L0374: 1, L0648: 1, L0768: 1, L0649: 1, L0803: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0659: 1, L0526: 1, L0783: 1, L0793: 1, H0144: 1, H0690: 1, H0660: 1, S0330: 1, H0539: 1, S0378: 1, S0152: 1, H0522: 1, H0694: 1, H0555: 1, S0012: 1, S0390: 1, S0014: 1, S0028: 1, L0743: 1, L0779: 1, L0752: 1, H0444: 1, S0436: 1, L0581: 1, H0543: 1, H0423: 1, S0458: 1 and H0506: 1.</p>
						<p>AR089: 9, AR316: 9, AR060: 9 L0761: 4, L0766: 4, L0747:</p>

281	HBWBD25	800765	291	182 - 328	2888			4, L0759: 3, H0617: 2, L0800: 2, L0764: 2, L0768: 2, L0775: 2, L0653: 2, L0809: 2, L0665: 2, H0144: 2, L0438: 2, H0651: 2, L0748: 2, L0750: 2, L0755: 2, L0731: 2, L0758: 2, H0657: 1, H0656: 1, H0419: 1, S0212: 1, S0376: 1, S0360: 1, L0021: 1, H0581: 1, H0150: 1, H0594: 1, S6028: 1, H0687: 1, H0606: 1, H0135: 1, S0038: 1, S0372: 1, S0344: 1, S0002: 1, L0770: 1, L0771: 1, L0662: 1, L0794: 1, L0774: 1, L0527: 1, L0542: 1, L0383: 1, L0792: 1, S0374: 1, L0352: 1, S0454: 1, L0741: 1, L0439: 1, L0754: 1, L0756: 1, L0596: 1 and L0366: 1.	
282	HBXA593	836513	292	215 - 250	2889			AR089: 2, AR316: 1 H0351: 2, S0412: 2, H0486: 1, S0386: 1, H0625: 1 and L0748: 1.	
283	HBXAT27	815571	293	1097 - 1219	2890	His-25 to Phe-30.		AR089: 16, AR316: 11, AR060: 6 S0038: 1 AR089: 5, AR316: 4, AR060: 3 S0414: 11, L0748: 7, L0741: 6, H0013: 5, L0747: 5, L0758: 5, L0717: 4, H0144: 4, L0591: 4, H0431: 3, H0090: 3, T0042: 3, L0439: 3, L0749: 3, L0593: 3, H0356: 2, S0476: 2, H0619: 2, H0574: 2, H0575: 2, S0010: 2, H0052: 2, L0471: 2, H0266: 2, H0622: 2, H0169: 2, H0124: 2, S0036: 2, H0264: 2, S0038: 2, H0100: 2, L0065: 2, L0796: 2, L0772: 2, L0662: 2, L0766: 2, L0774: 2, L0375: 2, L0655: 2.	2pter-p25.1

284	HBXAW57	815650	294	152 - 262	2891				2, L0665: 2, H0660: 2, L0754: 2, H0422: 2, H0686: 1, S0040: 1, L0460: 1, S0624: 1, S0218: 1, H0657: 1, H0341: 1, H0255: 1, H0661: 1, H0664: 1, S0356: 1, H0580: 1, H0393: 1, S0222: 1, H0438: 1, H0592: 1, H0586: 1, T0039: 1, H0036: 1, H0390: 1, S0346: 1, H0318: 1, H0050: 1, H0057: 1, H0014: 1, H0015: 1, H0051: 1, T0010: 1, H0083: 1, H0239: 1, H0252: 1, H0615: 1, H0428: 1, H0030: 1, H0032: 1, H0673: 1, L0455: 1, H0087: 1, H0477: 1, H0488: 1, H0102: 1, S0422: 1, H0529: 1, L0763: 1, L0770: 1, L0638: 1, L0761: 1, L0373: 1, L0646: 1, L0643: 1, L0363: 1, L0804: 1, L0775: 1, L0805: 1, L0635: 1, L0776: 1, L0639: 1, L0635: 1, L0783: 1, L4501: 1, L0663: 1, L0438: 1, H0520: 1, H0547: 1, H0519: 1, H0593: 1, S0328: 1, H0539: 1, S0380: 1, S0044: 1, S0406: 1, S0027: 1, L0779: 1, L0759: 1, H0445: 1, H0595: 1, S0434: 1, S0436: 1, L0361: 1, H0423: 1 and H0008: 1.
285	HBXB129	847000	295	87 - 173	2892	Met-1 to Ala-7.			AR089: 8, AR316: 5, AR060: 3, S0038: 2, L0758: 4, L0794: 2, L0779: 2, H0261: 1, S0038: 1 and L0791: 1.
286 287	HBXB124 HBXB178	823353 812527	296 297	85 - 225 2163 - 2522	2893 2894	Arg-24 to Gly-29, Gly-43 to Arg-49.		16q22	103850, 114835, 121360, 217800, 218030

288	HBXCD59	860439	298	165 - 362	2895	Met-1 to Cys-7 Leu-21 to Arg-44, Ala-53 to Ser-60.	1, H0271: 1, S0038: 1, S0152: 1, H0521: 1 and H0522: 1. L0439: 5, L0438: 3, L0769: 2, L0759: 2, S0001: 1, S0282: 1, S0300: 1, S0222: 1, H0438: 1, S0010: 1, S0049: 1, H0052: 1, H0572: 1, T0010: 1, S0038: 1, H0521: 1, L0756: 1 and L0366: 1.		
289	HBXCE43	809108	299	349 - 363	2896		S0038: 1		
290	HBXCC08	628501	300	260 - 313	2897		AR089: 14, AK316: 9, AR060: 5		
291	HBXCM52	799513	301	366 - 479	2898		H0031: 3, L0741: 3, L0757: 2, L0032: 1, H0123: 1, L0455: 1, H0135: 1, S0038: 1, H0100: 1, L0659: 1, L0792: 1, L0665: 1, S0380: 1 and L0591: 1. AR089: 11, AK316: 7, AR060: 4		
292	HBXCC03	589516	302	231 - 398	2899	Thr-4 to Arg-10, Pro-42 to Ser-47.	L0758: 9, L0752: 8, L0731: 6, L0748: 5, L0740: 5, L0747: 5, H0014: 4, L0774: 4, L0754: 4, L0756: 4, L0755: 4, S0358: 3, S0360: 3, H0083: 3, H0032: 3, H0059: 3, L0770: 3, L0766: 3, L0803: 3, L0776: 3, L0750: 3, L0757: 3, H0171: 2, H0265: 2, H0657: 2, H0156: 2, H0428: 2, T0006: 2, H0090: 2, H0625: 2, L0769: 2, L0806: 2, L0655: 2, H0659: 2, S0152: 2, H0521: 2, H0694: 2, S0012: 2, L0439: 2.	11	

293	HBXCR15	731861	303	158 - 259	2900	Gly-17 to Ala-22, Pro-24 to Pro-33.	<p>2, L0588: 2, S0026: 2, H0624: 1, S0402: 1, T0049: 1, S0420: 1, L0005: 1, S0354: 1, H0489: 1, S0045: 1, S0046: 1, S6026: 1, L0717: 1, S0278: 1, H0592: 1, H0013: 1, S0280: 1, H0575: 1, H0318: 1, H0596: 1, T0110: 1, H0024: 1, S0051: 1, H0179: 1, H0687: 1, H0119: 1, H0553: 1, H0673: 1, H0591: 1, H0268: 1, S0038: 1, H0494: 1, S0150: 1, H0641: 1, S0210: 1, L0520: 1, L0772: 1, L0764: 1, L0773: 1, L0768: 1, L0364: 1, L0649: 1, L0388: 1, L0775: 1, L0512: 1, L0783: 1, L0384: 1, L0809: 1, L0666: 1, L0665: 1, S0126: 1, H0651: 1, S0328: 1, H0539: 1, S0378: 1, S0380: 1, S0027: 1, L0786: 1, L0739: 1, L0606: 1, L0604: 1, H0216: 1, S0276: 1, H0543: 1, H0506: 1 and H0352: 1.</p>	19p13.3	<p>108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477</p>
294	HBXDL52	873460	304	1040 - 1066	2901		<p>L0439: 18, H0441: 8, L0157: 7, S0007: 3, H0032: 3, L0769: 3, S0001: 2, S0222: 2, H0100: 2, L0805: 2, L0756: 2, S0282: 1, S6026: 1, H0261: 1, H0455: 1, H0194: 1, H0009: 1, H0201: 1, S0388: 1, T0010: 1, S6028: 1, H0087: 1, S0038: 1, S0112: 1, L0770: 1, L0796: 1, L0776: 1, L0790: 1, H0144: 1, L0741: 1, L0742: 1, L0786: 1 and L0592: 1.</p>		<p>L0438: 4, L0439: 3, L0779: 3, L0785: 2, L0471: 2, S0038: 2, L0521: 2, S0116: 1, S0360: 1, H0637: 1, S0222: 1, H0486: 1, H0013: 1, H0004: 1, H0052:</p>

295	HBXDL52	889328	305	1040 - 1066	2902				1, H0012: 1, H0038: 1, H0616: 1, L0803: 1, L0789: 1, S0053: 1, L0731: 1, L0758: 1, L0599: 1 and L0594: 1. L0438: 4, L0439: 3, L0779: 3, L0785: 2, L0471: 2, S0038: 2, L0521: 2, S0116: 1, S0560: 1, H0637: 1, S0222: 1, H0486: 1, H0013: 1, H0004: 1, H0052: 1, H0012: 1, H0038: 1, H0616: 1, L0803: 1, L0789: 1, S0053: 1, L0731: 1, L0758: 1, L0599: 1 and L0594: 1.		
296	HBXDN08	566765	306	67 - 141	2903				ARI75: 16, AR270: 14, ARI79: 13, AR269: 11, AR284: 11, ARI83: 11, AR295: 11, AR290: 10, AR033: 10, AR268: 10, AR293: 10, AR296: 10, AR263: 9, AR285: 9, AR096: 9, AR247: 9, AR292: 9, ARI84: 8, ARI104: 8, AR267: 8, AR286: 7, AR298: 7, ARI82: 7, AR266: 7, AR256: 7, AR299: 7, AR219: 7, AR218: 7, AR240: 6, ARI86: 6, AR289: 6, AR089: 6, AR274: 6, AR237: 5, AR291: 5, AR294: 5, AR259: 5, AR316: 5, AR258: 4, ARI77: 4, AR241: 4, ARI92: 4, AR231: 4, AR265: 4, AR206: 4, AR238: 4, AR060: 3, AR273: 3, AR275: 3, AR039: 3, AR205: 3, ARI85: 3, AR282: 3, AR226: 3.	13	

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☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15

[illegible]

297	HBXDN65	840021	307	187 - 297	2904			1, H0594: 1, H0179: 1, H0271: 1, H0188: 1, S0003: 1, H0688: 1, H0622: 1, H0031: 1, H0135: 1, H0038: 1, H0616: 1, H0087: 1, H0264: 1, H0413: 1, H0100: 1, H0396: 1, S0464: 1, H0647: 1, S0210: 1, S0426: 1, L3904: 1, L0761: 1, L0800: 1, L0642: 1, L0521: 1, L0766: 1, L0804: 1, L0774: 1, L0806: 1, L0805: 1, L0657: 1, L0558: 1, L0367: 1, L0791: 1, L0792: 1, L0666: 1, L0663: 1, L0664: 1, H0520: 1, H0519: 1, H0435: 1, H0672: 1, S0328: 1, S0330: 1, L0779: 1, L0755: 1, L0757: 1, H0665: 1, S0192: 1 and H0542: 1.
298	HBXFA04	842901	308	411 - 536	2905	Gly-25 to Glu-34.		AR060: 4, AR316: 3, AR089: 3, L0758: 2 and H0438: 1.
299	HBXFE64	838824	309	15 - 116	2906			H0438: 1
300	HBXFI33	610452	310	124 - 495	2907	Pro-87 to Glu-96, Thr-98 to Thr-103.		AR202: 4, AR244: 3, AR313: 3, AR205: 2, AR282: 2, AR204: 2, AR273: 2, AR186: 2, AR055: 1, AR277: 1, AR267: 1, AR052: 1, AR266: 1, AR310: 1, AR247: 1, AR233: 1, AR206: 1, AR089: 1, AR231: 1, AR182: 1, AR061: 1, AR185: 1, AR060: 1, AR033: 1, AR232: 1
301	HBXFP72	688040	311	122 - 235	2908			H0305: 1 and H0438: 1.
								S0360: 2, L0776: 2, L0747: 2, L0758: 2, L0362: 2, S0418: 1, H0438: 1, H0581: 1, H0179: 1
								Spter-p15.1

302	HBXFS1	815651	312	20-70	2909				1, S0003: 1, H0039: 1, T0023: 1, L0796: 1, L0766: 1, L0635: 1, L0527: 1, L0659: 1, L0666: 1, L0663: 1, L0664: 1, S0148: 1, H0547: 1, H0689: 1, H0648: 1, H0576: 1, L0748: 1, L0754: 1, L0771: 1, L0759: 1 and H0543: 1	
303	HBXFW01	847001	313	125 - 670	2910	Leu-28 to Lys-34, Leu-83 to Ser-90, Glu-102 to Glu-109, Glu-118 to Glu-123, Thr-134 to Cys-163, Asn-165 to Ser-182.			H0438: 1 and L0759: 1, L0439: 9, T0010: 6, L0592: 6, L0500: 3, L0759: 3, L0794: 2, L0442: 1, S0282: 1, S0007: 1, S0220: 1, H0438: 1, H0434: 1, H0052: 1, H0327: 1, H0009: 1, H0562: 1, S0036: 1, L0351: 1, L0768: 1, L0776: 1, L0635: 1, L0352: 1, L0741: 1, L0786: 1 and S0106: 1	8
304	HBXGE12	1310891	314	52 - 414	2911	Asp-39 to Ala-50, Lys-80 to Cys-85.			L0769: 10, L0439: 7, S0049: 2, H0052: 2, S0051: 2, L0742: 2, S0110: 1, L0617: 1, S0300: 1, H0441: 1, H0438: 1, H0485: 1, H0486: 1, H0374: 1, H0571: 1, H0708: 1, L0598: 1, L0770: 1, L0639: 1, L0771: 1, L0768: 1, L0794: 1, L0774: 1, L0788: 1, S0053: 1, H0539: 1, L0749: 1, L0758: 1, S0031: 1, L0593: 1 and S0106: 1	
305	HBXGL91	901845	315	80 - 190	2912	Asp-39 to Ala-50, Lys-80 to Cys-85.			AR039: 7, AR198: 5, AR247: 4, AR263: 4, AR265: 4, AR310: 3, AR204: 3, AR294: 2, AR249: 2, AR292: 2, AR296: 2, AR293: 2, AR192: 2, AR240: 2, AR205: 2, AR033: 2,	12q21.3-q21.4

							AR274: 2, AR096: 2, AR295: 2, AR314: 2, AR312: 2, AR183: 2, AR284: 2, AR285: 2, AR269: 1, AR104: 1, AR298: 1, AR286: 1, AR281: 1, AR232: 1, AR182: 1, AR282: 1, AR244: 1, AR206: 1, AR089: 1, AR277: 1, AR299: 1, AR290: 1, AR186: 1 H0438: 1 and H0615: 1			
306	HBXGM24	821320	316	268 - 315	2913		S0354: 1, S0222: 1, H0431: 1, H0438: 1, H0051: 1, S0426: 1 and H0529: 1			
307	HBZAI75	668231	317	260 - 406	2914	Gln-18 to Glu-24, Ser-39 to Lys-44	H0339: 1 and S0188: 1			
308	HCABP33	866421	318	9 - 122	2915		L0761: 3, L0794: 3, H0271: 2, H0252: 2, L0769: 2, L0771: 2, L0766: 2, L0809: 2, H0521: 2, H0522: 2, L0747: 2, L0756: 2, L0752: 2, H0556: 1, H0125: 1, S0376: 1, H0609: 1, H0486: 1, H0439: 1, S0051: 1, H0688: 1, H0634: 1, H0413: 1, L0763: 1, L0770: 1, L0800: 1, L0806: 1, H0593: 1, H0672: 1, S0028: 1, S0031: 1 and L0595: 1	19p11-p12	601843	
309	HCABW10	846467	319	76 - 198	2916	Arg-31 to Met-36	H0125: 1			
310	HCACZ65	850785	320	30 - 140	2917		H0125: 1			
311	HCBAB34	847002	321	93 - 212	2918		L0758: 13, L0756: 3, L0752: 3, L0438: 2, H0176: 1, H0261: 1, H0309: 1, H0081: 1, H0029: 1, H0038: 1, H0616: 1, H0202: 1, L0369: 1, L0766: 1, L0774: 1, L0776: 1, L0635: 1, L0809: 1, L0791: 1, H0547: 1, H0711: 1, H0690: 1, S0152: 1, H0479:			

312	HCDAA24	806565	322	342 - 890	2919	Ala-85 to Thr-90, Glu-149 to Gly-155, Pro-157 to Asn-166.	<p>1, L0743: 1, L0439: 1, L0750: 1, L0777: 1, L0755: 1, H0445: 1 and L0588: 1.</p> <p>AR183: 16, AR177: 11, AR175: 7, AR060: 6, AR290: 5, AR285: 4, AR284: 4, AR089: 4, AR294: 4, AR316: 4, AR269: 4, AR295: 3, AR289: 3, AR247: 3, AR179: 3, AR182: 3, AR251: 2, AR270: 2, AR299: 2, AR313: 2, AR184: 2, AR033: 2, AR240: 2, AR231: 2, AR266: 2, AR053: 2, AR055: 2, AR267: 1, AR293: 1, AR186: 1, AR291: 1, AR061: 1, AR256: 1, AR282: 1, AR233: 1, AR213: 1, AR238: 1, AR244: 1, AR292: 1, AR096: 1, AR259: 1, L0764: 4, L0777: 4, H0618: 3, H0231: 3, S0358: 2, H0253: 2, H0052: 2, H0617: 2, L0743: 2, H0657: 1, H0255: 1, H0661: 1, H0662: 1, H0402: 1, H0638: 1, S0354: 1, L0622: 1, H0546: 1, S6028: 1, H0213: 1, L0772: 1, L0775: 1, L0657: 1, L0659: 1, L0809: 1, L0666: 1, S0330: 1, S0378: 1, H0696: 1, S0404: 1, H0478: 1, L0744: 1, L0750: 1, L0753: 1, L0731: 1 and H0445: 1.</p>
313	HCDAA24	894773	323	427 - 855	2920		<p>AR183: 16, AR177: 11, AR175: 7, AR060: 6, AR290: 5, AR285: 4,</p>

314	HCDAF17	722206	324	12 - 119	2921	<p>AR284: 4, AR089: 4, AR294: 4, AR316: 4, AR269: 4, AR293: 3, AR289: 3, AR247: 3, AR179: 3, AR182: 3, AR251: 2, AR270: 2, AR299: 2, AR313: 2, AR184: 2, AR033: 2, AR240: 2, AR231: 2, AR266: 2, AR053: 2, AR055: 2, AR267: 1, AR293: 1, AR186: 1, AR291: 1, AR061: 1, AR256: 1, AR282: 1, AR233: 1, AR213: 1, AR238: 1, AR244: 1, AR292: 1, AR096: 1, AR259: 1, L0764: 4, L0777: 4, H0618: 3, H0231: 3, S0358: 2, H0253: 2, H0052: 2, H0617: 2, L0743: 2, H0657: 1, H0255: 1, H0661: 1, H0662: 1, H0402: 1, H0638: 1, S0354: 1, L0622: 1, H0546: 1, S6028: 1, H0213: 1, L0772: 1, L0775: 1, L0657: 1, L0659: 1, L0809: 1, L0666: 1, S0330: 1, S0378: 1, H0696: 1, S0404: 1, H0478: 1, L0744: 1, L0750: 1, L0753: 1, L0731: 1 and H0445: 1, L0439: 10, L0438: 7, S0356: 4, H0251: 4, L0649: 3, L0803: 3, L0734: 3, H0136: 2, L0471: 2, H0031: 2, H0551: 2, L0771: 2, H0547: 2, L0743: 2, H0686: 1, H0650: 1, H0341: 1, S0418: 1, S0444: 1, S0410: 1, S0045: 1, S0300: 1, H0486: 1, H0266: 1, H0673: 1, H0413: 1, H0560:</p>	Xp22.1-p22.2	<p>300075, 300077, 301200, 302350, 302801, 305435, 306000, 306000, 306100, 307800, 308800, 309510, 311200, 311770, 312040, 312170, 312700, 313400</p>
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315	HCDAH02	653066	325	495 - 665	2922	Glu-40 to Thr-46.	1, H0509: 1, L0369: 1, L0763: 1, L0662: 1, L0794: 1, L0659: 1, L0789: 1, L0663: 1, S0126: 1, H0435: 1, H0660: 1, H0539: 1, S0152: 1, S0037: 1, S0028: 1, L0756: 1, L0753: 1, L0759: 1 and S0242: 1. AR089: 11, AR316: 10, AR060: 9 H0265: 1, H0556: 1, H0251: 1, L0777: 1 and L0731: 1.	2		
316	HCDAP33	566794	326	126 - 209	2923		H0694: 34, L0731: 23, L0747: 21, L0748: 12, L0758: 12, L0766: 10, L0769: 8, L0775: 8, H0599: 7, L0776: 7, L0749: 7, L0771: 6, L0770: 5, L0519: 5, S0374: 5, L0750: 5, L0757: 5, H0685: 4, S0007: 4, S0222: 4, L0623: 4, H0413: 4, S0144: 4, L0761: 4, H0659: 4, L0752: 4, H0657: 3, H0341: 3, S0278: 3, H0392: 3, H0024: 3, H0266: 3, H0031: 3, S0038: 3, H0494: 3, S0440: 3, L0598: 3, L0803: 3, L0805: 3, S0126: 3, S0328: 3, H0521: 3, L0755: 3, L0759: 3, S0026: 3, H0624: 2, H0170: 2, H0171: 2, T0002: 2, T0049: 2, L0808: 2, S0116: 2, H0638: 2, S0132: 2, H0441: 2, H0333: 2, H0327: 2, H0012: 2, H0014: 2, S0003: 2, H0674: 2, H0040: 2, H0087: 2, S0438: 2, H0646: 2, S0344: 2, L0772: 2, L0764: 2, L0521: 2, L0768: 2, L0658: 2, L0789: 2, L0666: 2, H0658: 2, S0004: 2, H0696: 2, H0134: 2, S0206: 2, L0439: 2, L0756: 2, S0031: 2, L0581: 2, H0653: 2, H0136: 2, H0352: 2,	3q27		109565, 109565, 142640, 228960, 261515, 600044

317	HCDAR40	654821	327	102 - 224	2924				H0395: 1, H0686: 1, H0294: 1, S0114: 1, S0218: 1, L0785: 1, S0212: 1, H0484: 1, H0483: 1, H0663: 1, H0662: 1, S0358: 1, S0444: 1, S0360: 1, S0046: 1, H0351: 1, H0431: 1, H0453: 1, H0611: 1, H0409: 1, H0592: 1, H0492: 1, L0622: 1, H0486: 1, L0586: 1, T0060: 1, H0156: 1, H0098: 1, T0048: 1, S0049: 1, H0052: 1, H0251: 1, H0309: 1, T0115: 1, H0544: 1, H0545: 1, H0081: 1, L0471: 1, H0620: 1, H0015: 1, H0373: 1, L0163: 1, S0051: 1, H0188: 1, S0214: 1, H0622: 1, H0321: 1, H0163: 1, H0090: 1, H0591: 1, H0038: 1, T0067: 1, H0412: 1, T0041: 1, H0641: 1, S0142: 1, S0422: 1, L0762: 1, L0763: 1, L0371: 1, L0638: 1, L0643: 1, L0662: 1, L0767: 1, L0549: 1, L0651: 1, L0806: 1, L0655: 1, L0606: 1, L0657: 1, L0659: 1, L0542: 1, L0783: 1, L0384: 1, L0544: 1, L0647: 1, L0663: 1, L0665: 1, S0052: 1, S0216: 1, H0144: 1, H0547: 1, H0690: 1, H0670: 1, H0651: 1, H0710: 1, S0152: 1, S0406: 1, S3012: 1, S3014: 1, S0028: 1, L0742: 1, L0744: 1, L0754: 1, L0777: 1, H0343: 1, H0595: 1, S0434: 1, L0588: 1, L0599: 1, S0011: 1, H0665: 1, H0667: 1, S0276: 1, H0423: 1 and H0422: 1.
									S0114: 1, S0045: 1, H0318: 1 and H0251: 1.
318	HCDAS02	896667	328	136 - 870	2925	Thr-70 to Ala-77.			AR089: 12, AR316: 12, AR060: 12

320	HCDB032	831942	330	1669 - 1884	2927	Val-2 to Thr-7.	AR089: 7, AR316: 6, AR060: 5 L0803: 7, L0766: 4, L0777: 4, L0666: 3, H0521: 3, T0115: 2, H0687: 2, L0809: 2, H0659: 2, L0754: 2, L0779: 2, L0759: 2, S0114: 1, H0341: 1, H0351: 1, S0222: 1, H0441: 1, H0013: 1, S0280: 1, H0251: 1, H0544: 1, H0123: 1, H0354: 1, H0266: 1, H0622: 1, H0090: 1, T0041: 1, H0641: 1, L0371: 1, L0646: 1, L0662: 1, L0774: 1, L0805: 1, L0653: 1, L0659: 1, L0635: 1, L0526: 1, L0783: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, T0068: 1, H0519: 1, H0682: 1, S0152: 1, S0136: 1, L0744: 1, L0780: 1, L0758: 1, H0444: 1, H0445: 1, L0590: 1, L0594: 1, S0026: 1 and H0422: 1.	1, S0003: 1, H0688: 1, H0031: 1, L0456: 1, H0591: 1, L0369: 1, L0520: 1, L0764: 1, L0649: 1, L0774: 1, L0375: 1, L0776: 1, H0519: 1, H0689: 1, H0539: 1, S0380: 1, H0696: 1, L0743: 1, L0747: 1, L0779: 1, L0780: 1, L0759: 1, S0192: 1 and H0543: 1.
321	HCDBW67	733860	331	498 - 632	2928	Lys-22 to His-27, Ser-31 to Gly-38.	AR089: 194, AR316: 136, AR060: 84 H0251: 7, L0759: 2, H0657: 1, S0116: 1, S0442: 1, S0360: 1, H0486: 1, H0252: 1, S0440: 1, L0764: 1, L0766: 1, L0665: 1, H0144: 1, L0591: 1, L0608: 1 and H0543: 1.	20
322	HCDBZ31	701973	332	565 - 609	2929		AR089: 40, AR316: 31, AR060: 24	

323	HCDCB03	571037	333	32 - 451	2930	Gln-7 to Pro-13, Pro-43 to Gly-50, Glu-54 to Asp-60, Ala-77 to Ser-94, Ser-134 to Leu-139.	H0251: 2, S0003: 1 and H0547: 1, S0010: 22, H0144: 12, L0439: 12, L0776: 10, H0032: 9, H0038: 8, H0251: 7, H0171: 6, H0052: 6, L0598: 6, L0438: 6, H0013: 5, S0036: 5, L0519: 5, L0747: 5, H0624: 4, S0222: 4, S0414: 4, H0156: 4, L0749: 4, L0750: 4, L0752: 4, L0599: 4, H0170: 3, S0358: 3, H0550: 3, H0592: 3, S0346: 3, H0050: 3, H0024: 3, S0031: 3, H0252: 3, H0412: 3, L0748: 3, L0756: 3, L0759: 3, S0031: 3, L0588: 3, S0412: 3, H0339: 2, H0374: 2, S0049: 2, T0003: 2, L0163: 2, H0051: 2, S6028: 2, H0328: 2, L0455: 2, L0763: 2, L0521: 2, L0768: 2, L0546: 2, L0532: 2, H0519: 2, S0126: 2, L0753: 2, L0731: 2, L0758: 2, L0589: 2, H0008: 2, L0411: 1, S0110: 1, S0400: 1, S0360: 1, S0007: 1, H0619: 1, S6026: 1, H0175: 1, H0369: 1, H0441: 1, H0431: 1, H0392: 1, H0455: 1, H0438: 1, H0587: 1, H0486: 1, N0009: 1, H0244: 1, L0021: 1, H0196: 1, H0194: 1, H0596: 1, H0327: 1, H0544: 1, H0545: 1, H0046: 1, H0150: 1, N0006: 1, H0565: 1, H0567: 1, H0562: 1, L0471: 1, H0012: 1, S0050: 1, H0020: 1, S0388: 1, H0510: 1, S0318: 1, S0336: 1, S0214: 1, H0428: 1, L0483: 1, H0212: 1, H0163: 1, H0616: 1, H0551: 1, T0067: 1, H0264: 1, H0413: 1, S0038: 1, S0386: 1, H0100: 1, S0464:	4	
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324	HCDC151	813504	334	46 - 54	2931			1, H0538: 1, UNKNW: 1, L0520: 1, L0770: 1, L0364: 1, L0774: 1, L0775: 1, L0540: 1, L0529: 1, S0148: 1, L0352: 1, S0350: 1, S0028: 1, L0786: 1, L0779: 1, H0595: 1, L0592: 1, L0608: 1, L0361: 1, S0106: 1 and L0697: 1.		
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325	HCDC142	847004	335	216 - 245	2932			AR060: 5, AR316: 4, AR089: 3 H0251: 3, H0581: 1 and S0003: 1.		
326	HCDD15	841041	336	668 - 706	2933			AR214: 30, AR222: 26, AR263: 26, AR264: 24, AR217: 23, AR223: 22, AR169: 22, AR235: 21, AR171: 21, AR165: 21, AR164: 20, AR168: 20, AR166: 19, AR266: 19, AR195: 19, AR221: 19, AR311: 19, AR291: 18, AR210: 18, AR216: 18, AR207: 18, AR163: 18, AR172: 17, AR224: 16, AR161: 16, AR162: 16, AR197: 16, AR170: 16, AR104: 16, AR309: 16, AR261: 15, AR240: 15, AR213: 15, AR238: 15,		

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327	HCDDX81	603184	337	274 - 417	2934	Lys-23 to Lys-48.	H0251: 6, L0770: 2, L0762: 1 and L0757: 1.		
328	HCDDY28	892137	338	75 - 170	2935		H0136: 2, S0045: 1, H0251: 1, H0413: 1, L0646: 1, L0766: 1 and L0736: 1.		
329	HCDEB19	587264	339	266 - 412	2936	Gln-40 to Cys-48.	L0748: 11, L0742: 10, H0556: 8, H0251: 6, L0769: 6, L0749: 6, L0587: 6, H0265: 5, H0318: 5, H0040: 5, H0144: 5, H0539: 5, L0750: 5, H0009: 4, H0617: 4, L0738: 4, L0601: 4, T0110: 3, H0038: 3, L0768: 3, L0766: 3, L0809: 3, H0341: 2, S0045: 2, S0046: 2, H0013: 2, H0618: 2, S0182: 2, H0083: 2, H0031: 2, H0553: 2, T0042: 2, L0770: 2, L0372: 2, L0791: 2, L0665: 2, H0576: 2, S0027: 2, S0028: 2, L0731: 2, L0608: 2, L0600: 2, H0624: 1, H0683: 1, S0040: 1, H0657: 1, S0001: 1, H0661: 1, H0125: 1, S0358: 1, S0408: 1, H0208: 1, S0132: 1, H0619: 1, L0717: 1, S0222: 1, H0455: 1, H0486: 1, T0082: 1, S0049: 1, H0052: 1, L0738: 1, H0530: 1, H0012: 1, H0024: 1, H0266: 1, H0188: 1, H0687: 1, H0644: 1, L0456: 1, H0135: 1, H0090: 1, H0591: 1, H0063: 1, H0087: 1, T0067: 1, H0264: 1, H0412: 1, H0413: 1, H0059: 1.		

330	HCDEN46	838592	340	83 - 262	2937					<p>H0494: 1, H0561: 1, L0598: 1, H0529: 1, L0763: 1, L0764: 1, L0773: 1, L0662: 1, L0381: 1, L0774: 1, L0375: 1, L0378: 1, L0805: 1, L0655: 1, L0661: 1, L0827: 1, L0656: 1, L0383: 1, L0382: 1, L0666: 1, L0664: 1, H0593: 1, H0435: 1, H0670: 1, H0660: 1, H0648: 1, H0626: 1, S3014: 1, L0744: 1, L0747: 1, H0595: 1, S0436: 1, L0596: 1, L0605: 1, H0543: 1 and S0424: 1.</p>
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331	HCDSES69	609997	341	271 - 276	2938			L0764: 1, L0767: 1, L0768: 1, L0794: 1, L0650: 1, L0375: 1, L0784: 1, L0776: 1, L0635: 1, L0384: 1, L5622: 1, L0789: 1, H0520: 1, H0519: 1, S0126: 1, H0435: 1, H0639: 1, H0648: 1, S0328: 1, H0539: 1, S0013: 1, S0044: 1, H0626: 1, S0028: 1, L0744: 1, L0745: 1, L0786: 1, L0753: 1, L0758: 1, L0589: 1, L0590: 1, S0242: 1 and H0506: 1		
332	HCEID45	664481	342	101 - 235	2939			H0250: 1, H0251: 1, H0031: 1 and L0666: 1. H0052: 4, L0768: 3, L0766: 3, L0438: 3, L0748: 3, L0750: 3, H0637: 2, H0341: 2, H0484: 2, T0042: 2, L0665: 2, H0658: 2, L0743: 2, L0744: 2, L0756: 2, L0777: 2, H0536: 1, H0656: 1, S0420: 1, H0393: 1, L0717: 1, S0222: 1, H0497: 1, H0486: 1, H0013: 1, H0263: 1, N0006: 1, L0579: 1, H0620: 1, L0163: 1, H0594: 1, H0267: 1, H0615: 1, H0688: 1, H0494: 1, H0538: 1, L0769: 1, L0772: 1, L0643: 1, L0794: 1, L0649: 1, L0804: 1, L0774: 1, L0375: 1, L0776: 1, L0789: 1, L0792: 1, L0666: 1, H0144: 1, H0520: 1, H0711: 1, H0690: 1, L0439: 1, L0754: 1, L0745: 1, L0747: 1, L0786: 1, L0780: 1, L0752: 1, H0542: 1 and H0352: 1.	22q12.2	101000, 101000, 101000, 101000, 123620, 138981, 188826, 600850, 601669
333	HCEINS6	821704	343	106 - 222	2940			L0439: 7, L0749: 5, L0766: 3, L0803: 3, L0438: 3, H0052: 2, H0050: 2, H0551: 2, L0764: 2, L0806: 2, L0776: 2, L0659: 2, L0663: 2, L0664: 2, L0748: 2.	Xq28	300031, 300044, 300048, 300049, 300049, 300055, 300100, 300100, 300104, 300126,

334	HCE1T53	843680	344	23 - 145	2941	Thr-23 to Lys-28, Arg-30 to Gly-45, Ser-52 to Ser-65, Gly-101 to Pro-106.	H0052: 1 AR274: 63, AR104: 35, AR309: 28, AR271: 28, AR186: 27, AR052: 27, AR273: 26, AR312: 26, AR033: 25, AR244: 24, AR275: 23, AR313: 22, AR053: 21, AR205: 21, AR282: 20, AR310: 20, AR213: 19, AR219: 18, AR246: 17, AR249: 17, AR096: 17, AR185: 17, AR270: 16, AR243: 16, AR218: 16, AR192: 16, AR292: 15, AR248: 15, AR265: 15, AR299: 14, AR247: 14, AR253: 14, AR268: 13, AR240: 13, AR295: 13, AR198: 13, AR269: 13, AR183: 13, AR175: 12, AR039: 12, AR182: 12, AR283: 12, AR206: 12, AR293: 11, AR285: 11, AR291: 11,	2, L0731: 2, L0759: 2, H0265: 1, H0556: 1, S0046: 1, H0592: 1, H0587: 1, H0574: 1, H0486: 1, H0244: 1, H0024: 1, H0688: 1, H0030: 1, H0674: 1, H0591: 1, H0264: 1, H0488: 1, H0641: 1, L0761: 1, L0372: 1, L0646: 1, L0768: 1, L0389: 1, L0655: 1, L0382: 1, L0647: 1, L0792: 1, S0152: 1, H0521: 1, L0779: 1, L0777: 1, L0780: 1, L0755: 1, H0445: 1, H0653: 1 and H0542: 1.	301201, 301590, 302060, 302060, 302060, 302060, 302960, 303700, 303800, 303900, 304800, 305900, 305900, 305900, 306700, 306995, 308310, 308840, 308840, 308840, 309200, 309548, 309620, 309900, 310300, 310400, 310460, 310460, 311300, 311510, 314300, 314400,
335	HCE1Y27	637529	345	374 - 775	2942		H0052: 1 AR274: 63, AR104: 35, AR309: 28, AR271: 28, AR186: 27, AR052: 27, AR273: 26, AR312: 26, AR033: 25, AR244: 24, AR275: 23, AR313: 22, AR053: 21, AR205: 21, AR282: 20, AR310: 20, AR213: 19, AR219: 18, AR246: 17, AR249: 17, AR096: 17, AR185: 17, AR270: 16, AR243: 16, AR218: 16, AR192: 16, AR292: 15, AR248: 15, AR265: 15, AR299: 14, AR247: 14, AR253: 14, AR268: 13, AR240: 13, AR295: 13, AR198: 13, AR269: 13, AR183: 13, AR175: 12, AR039: 12, AR182: 12, AR283: 12, AR206: 12, AR293: 11, AR285: 11, AR291: 11,	14q11.2	182600, 186880, 190195, 190195, 222700, 600243, 602279, 602279

336	HCE1Y34	809084	346	757 - 783	2943		AR263: 11, AR194: 11, AR267: 11, AR231: 11, AR204: 11, AR290: 11, AR266: 11, AR055: 11, AR241: 10, AR294: 10, AR284: 10, AR300: 10, AR277: 10, AR316: 9, AR296: 9, AR202: 9, AR061: 9, AR184: 9, AR258: 9, AR256: 8, AR298: 8, AR089: 8, AR289: 8, AR060: 8, AR280: 7, AR314: 7, AR315: 7, AR286: 7, AR179: 7, AR177: 6, AR259: 6, AR231: 6, AR238: 5, AR232: 5, AR237: 5, AR229: 5, AR226: 5, AR234: 5, AR233: 3, AR227: 3, AR281: 2 H0052: 2, L0439: 2, S0300: 1, H0549: 1, S0222: 1, S0010: 1, H0178: 1, S0051: 1, T0010: 1, S0038: 1, L0351: 1, L0769: 1, L0761: 1, L0803: 1, H0539: 1 and H0696: 1.
337	HCE2B57	737997	347	279 - 308	2944		H0052: 1 and H0124: 1.
338	HCE2E47	886155	348	102 - 191	2945		H0013: 2, S0222: 1, H0052: 1, H0488: 1 and H0521: 1.
339	HCE2I23	571038	349	56 - 328	2946	Asp-3 to Ser-11, Ser-14 to Ser-21, Pro-23 to Glu-37, Ser-85 to Asn-90.	H0362: 2, H0052: 1, L0666: 1, H0696: 1 and L0750: 1.
340	HCE2P90	737935	350	142 - 270	2947	Thr-31 to Pro-40.	H0052: 1
341	HCE3A54	603435	351	51 - 179	2948		S0007: 1, H0052: 1 and L0805: 1.
342	HCE3C46	737889	352	290 - 310	2949		H0052: 1, S0386: 1 and

343	HCE3D58	873227	353	682 - 882	2950	His-56 to Ser-64.	H0422: 1. H0052: 19, L0741: 10, L0439: 7, L0438: 4, L0742: 4, S0036: 3, L0415: 2, S0222: 2, H0194: 2, H0399: 2, L0776: 2, S0001: 1, S0282: 1, H0261: 1, H0574: 1, H0632: 1, H0156: 1, S0010: 1, H0374: 1, S0049: 1, H0009: 1, S0050: 1, T0010: 1, L0483: 1, L0456: 1, S0386: 1, H0633: 1, L0635: 1, S0380: 1, L0745: 1 and L0366: 1.			118504, 118504, 131242, 602235
344	HCE3D89	648612	354	73 - 336	2951	Gln-6 to Leu-12, Pro-55 to Gly-63.	AR060: 5, AK316: 3, AR089: 2 S0222: 5, L0742: 5, L0769: 3, S0007: 2, H0052: 2, L0794: 2, H0156: 1, H0194: 1, S0388: 1, S0038: 1, L0502: 1, L0791: 1, L0792: 1, L0439: 1, L0779: 1 and L0758: 1.	20q13.3		
345	HCE3I43	766758	355	1075 - 1143	2952		S0222: 7, L0776: 7, L0740: 6, H0013: 5, L0751: 5, L0756: 5, L0741: 4, L0748: 4, S0010: 3, L0769: 3, L0438: 3, L0749: 3, L0759: 3, L0592: 3, H0052: 2, H0046: 2, L0471: 2, S0051: 2, L0776: 2, L0764: 2, L0662: 2, L0783: 2, H0144: 2, H0593: 2, L0777: 2, L0587: 2, L0608: 2, L0362: 2, H0713: 1, H0717: 1, S0116: 1, H0341: 1, S0001: 1, H0661: 1, H0664: 1, S0356: 1, S0442: 1, S0376: 1, S0360: 1, S0408: 1, H0229: 1, S0045: 1, S0300: 1, L0717: 1, S6016: 1, H0270: 1, H0427: 1, T0082: 1, H0590: 1, H0618: 1, H0390: 1, H0150: 1, L0157: 1, H0569: 1, H0050: 1, H0201: 1, H0594: 1, S0250: 1, H0428: 1, T0023:	20q13.1-13.2		102700, 102700, 118504, 118504, 131242, 139320, 139320, 139320, 139320, 602025

348	HCE3R01	834836	358	1386 - 1586	2955			1, H0684: 1, H0651: 1, S0206: 1, L0751: 1, L0750: 1, S0031: 1, S0260: 1, H0445: 1, L0589: 1, L0594: 1, L0366: 1, S0192: 1 and S0194: 1 L0595: 7, H0052: 5, L0439: 4, L0740: 4, L0754: 4, L0758: 4, L0766: 3, H0626: 3, H0556: 2, S0114: 2, L0717: 2, H0013: 2, H0561: 2, H0529: 2, L0770: 2, L0764: 2, L0768: 2, L0438: 2, L0747: 2, L0759: 2, L0362: 2, H0624: 1, H0484: 1, S0418: 1, S0376: 1, S0444: 1, S0045: 1, H0411: 1, L0623: 1, H0156: 1, H0599: 1, H0618: 1, S0346: 1, H0318: 1, H0421: 1, H0310: 1, H0263: 1, L0579: 1, S6028: 1, H0188: 1, S0250: 1, H0428: 1, H0553: 1, H0040: 1, H0616: 1, H0551: 1, H0100: 1, H0538: 1, L0769: 1, L0794: 1, L0774: 1, L0653: 1, L0776: 1, L0655: 1, L0658: 1, L0783: 1, L0663: 1, H0520: 1, H0547: 1, H0519: 1, H0522: 1, H0555: 1, S0027: 1, L0743: 1, L0748: 1, H0445: 1, L0596: 1 and H0665: 1 L0595: 7, H0052: 5, L0439: 4, L0740: 4, L0754: 4, L0758: 4, L0766: 3, H0626: 3, H0556: 2, S0114: 2, L0717: 2, H0013: 2, H0561: 2, H0529: 2, L0770: 2, L0764: 2, L0768: 2, L0438: 2, L0747: 2, L0759: 2, L0362: 2, H0624: 1, H0484: 1, S0418: 1, S0376: 1, S0444: 1, S0045: 1, H0411: 1, L0623: 1, H0156: 1, H0599: 1, H0618: 1, S0346: 1, H0318: 1, H0421: 1, H0310:	Xq21	305450, 309600, 309605, 311360, 314580
349	HCE3R01	841472	359	1386 - 1586	2956			L0595: 7, H0052: 5, L0439: 4, L0740: 4, L0754: 4, L0758: 4, L0766: 3, H0626: 3, H0556: 2, S0114: 2, L0717: 2, H0013: 2, H0561: 2, H0529: 2, L0770: 2, L0764: 2, L0768: 2, L0438: 2, L0747: 2, L0759: 2, L0362: 2, H0624: 1, H0484: 1, S0418: 1, S0376: 1, S0444: 1, S0045: 1, H0411: 1, L0623: 1, H0156: 1, H0599: 1, H0618: 1, S0346: 1, H0318: 1, H0421: 1, H0310:	Xq21	305450, 309600, 309605, 311360, 314580

350	HCE3R01	844574	360	1386 - 1586	2957		1, H0263: 1, L0579: 1, S6028: 1, H0188: 1, S0250: 1, H0428: 1, H0553: 1, H0040: 1, H0616: 1, H0551: 1, H0100: 1, H0538: 1, L0769: 1, L0794: 1, L0774: 1, L0653: 1, L0776: 1, L0655: 1, L0658: 1, L0783: 1, L0663: 1, H0520: 1, H0547: 1, H0519: 1, H0522: 1, H0555: 1, S0027: 1, L0743: 1, L0748: 1, H0445: 1, L0596: 1 and H0665: 1, L0595: 7, H0052: 5, L0439: 4, L0740: 4, L0754: 4, L0758: 4, L0766: 3, H0626: 3, H0536: 2, S0114: 2, L0717: 2, H0013: 2, H0561: 2, H0529: 2, L0770: 2, L0764: 2, L0768: 2, L0438: 2, L0747: 2, L0759: 2, L0362: 2, H0624: 1, H0484: 1, S0418: 1, S0376: 1, S0444: 1, S0045: 1, H0411: 1, L0623: 1, H0156: 1, H0599: 1, H0618: 1, S0346: 1, H0318: 1, H0421: 1, H0310: 1, H0263: 1, L0579: 1, S6028: 1, H0188: 1, S0250: 1, H0428: 1, H0553: 1, H0040: 1, H0616: 1, H0551: 1, H0100: 1, H0538: 1, L0769: 1, L0794: 1, L0774: 1, L0653: 1, L0776: 1, L0655: 1, L0658: 1, L0783: 1, L0663: 1, H0520: 1, H0547: 1, H0519: 1, H0522: 1, H0555: 1, S0027: 1, L0743: 1, L0748: 1, H0445: 1, L0596: 1 and H0665: 1, L0439: 23, H0521: 14, H0494: 12, H0599: 11, H0038: 8, S0002: 8, L0655: 8, S0374: 8, S0404: 8, L0769: 7, L0775: 7, L0659: 7, L0749: 7, H0543: 7, L0471: 6, H0373: 6, S0440:	Xq21	305450, 309600, 309605, 311360, 314580
351	HCE3R46	844450	361	376 - 444	2958		10		

Figure 1

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					2, L0753; 2, H0445; 2, S0436; 2, L0588; 2, L0593; 2, L0594; 2, L0362; 2, L0361; 2, L0366; 2, H0542; 2, H0423; 2, S0398; 2, T0002; 1, H0686; 1, H0713; 1, H0717; 1, H0716; 1, S6024; 1, S0114; 1, T0049; 1, S0134; 1, H0657; 1, H0656; 1, I0484; 1, H0663; 1, H0450; 1, H0125; 1, S0418; 1, S0420; 1, S0354; 1, T0008; 1, L0430; 1, H0722; 1, S0046; 1, H0619; 1, S6026; 1, L0717; 1, S0278; 1, S0222; 1, H0441; 1, H0610; 1, H0370; 1, H0613; 1, H0601; 1, H0497; 1, H0331; 1, H0632; 1, H0485; 1, H0486; 1, L0586; 1, T0109; 1, H0250; 1, H0069; 1, H0635; 1, H0002; 1, H0590; 1, H0618; 1, H0253; 1, H0581; 1, H0251; 1, H0085; 1, T0115; 1, H0546; 1, H0545; 1, H0565; 1, H0572; 1, H0570; 1, H0050; 1, H0242; 1, H0023; 1, H0051; 1, S0388; 1, H0275; 1, H0510; 1, H0594; 1, H0179; 1, H0416; 1, S0318; 1, S0316; 1, H0290; 1, S0314; 1, H0252; 1, H0615; 1, H0048; 1, H0213; 1, H0628; 1, H0032; 1, H0212; 1, S0364; 1, H0708; 1, S0366; 1, H0598; 1, H0591; 1, H0040; 1, T0067; 1, H0412; 1, H0059; 1, L0351; 1, L0564; 1, H0280; 1, S0014; 1, L0065; 1, S0150; 1, H0130; 1, L0369; 1, L0640; 1, L0501; 1, L0772; 1, L0372; 1, L0773; 1, L0521; 1, L0522; 1, L0803; 1, L0804; 1, L0650; 1, L0651; 1, L0378; 1, L0806; 1, L0653; 1, L0606;
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352	HCE4H32	843941	362	1403 - 1585	2959		1, L0807: 1, L0827: 1, L0657: 1, L0382: 1, L0792: 1, H0701: 1, S0148: 1, H0693: 1, H0724: 1, L0352: 1, H0689: 1, H0684: 1, S0328: 1, S0380: 1, H0518: 1, H0522: 1, H0696: 1, H0134: 1, H0631: 1, S0028: 1, S0206: 1, L0743: 1, L0756: 1, S0031: 1, L0599: 1, H0668: 1, H0665: 1, H0667: 1, S0192: 1, S0424: 1, S0462: 1, S0460: 1 and H0506: 1		
							13 L0748: 9, L0747: 8, L0759: 7, L0766: 6, L0776: 6, L0665: 5, L0749: 5, H0550: 4, H0052: 4, H0046: 4, L0771: 4, L0775: 4, L0777: 4, L0731: 4, S0049: 3, H0424: 3, L0803: 3, L0663: 3, H0144: 3, L0750: 3, H0556: 2, T0010: 2, H0412: 2, L0646: 2, L0764: 2, L0741: 2, L0366: 2, S0040: 1, S0358: 1, S0360: 1, H0637: 1, H0645: 1, L0717: 1, S0220: 1, H0431: 1, H0392: 1, H0333: 1, H0632: 1, H0013: 1, H0599: 1, H0098: 1, H0618: 1, S0010: 1, H0007: 1, H0184: 1, H0596: 1, H0345: 1, H0050: 1, H0015: 1, S0362: 1, S0388: 1, H0099: 1, H0688: 1, H0428: 1, H0039: 1, T0006: 1, H0617: 1, H0032: 1, L0455: 1, H0591: 1, H0040: 1, H0063: 1, L0564: 1, S0015: 1, S0142: 1, L0763: 1, L0770: 1, L0761: 1, L0800: 1, L0643: 1, L0794: 1, L0804: 1, L0375: 1, L0376: 1, L0378: 1, L0805: 1, L0607: 1, L0512: 1, L0809: 1, L0788: 1, L0532: 1, L0666: 1, L0438: 1, H0593:		

353	HCE4H32	874256	363	814 - 996	2960	<p>1, S0126: 1, H0684: 1, H0660: 1, H0539: 1, S0152: 1, H0436: 1, L0742: 1, L0740: 1, L0752: 1, L0755: 1, L0757: 1, H0445: 1, L0596: 1, L0592: 1, L0608: 1, S0026: 1, S0194: 1 and H0543: 1.</p> <p>13</p> <p>L0748: 9, L0747: 8, L0759: 7, L0766: 6, L0776: 6, L0665: 5, L0749: 5, H0550: 4, H0052: 4, H0046: 4, L0771: 4, L0775: 4, L0777: 4, L0731: 4, S0049: 3, H0424: 3, L0803: 3, L0663: 3, H0144: 3, L0750: 3, H0556: 2, T0010: 2, H0412: 2, L0646: 2, L0764: 2, L0741: 2, L0366: 2, S0040: 1, S0358: 1, S0360: 1, H0637: 1, H0645: 1, L0717: 1, S0220: 1, H0431: 1, H0392: 1, H0333: 1, H0632: 1, H0013: 1, H0599: 1, H0098: 1, H0618: 1, S0010: 1, H0007: 1, H0184: 1, H0596: 1, H0545: 1, H0050: 1, H0015: 1, S0362: 1, S0388: 1, H0099: 1, H0688: 1, H0428: 1, H0039: 1, T0006: 1, H0617: 1, H0032: 1, L0455: 1, H0591: 1, H0040: 1, H0063: 1, L0564: 1, S0015: 1, S0142: 1, L0763: 1, L0770: 1, L0761: 1, L0800: 1, L0643: 1, L0794: 1, L0804: 1, L0375: 1, L0376: 1, L0378: 1, L0805: 1, L0607: 1, L0512: 1, L0809: 1, L0788: 1, L0532: 1, L0666: 1, L0438: 1, H0593: 1, S0126: 1, H0684: 1, H0660: 1, H0539: 1, S0152: 1, H0436: 1, L0742: 1, L0740: 1, L0752: 1, L0755: 1, L0757: 1, H0445: 1, L0596: 1, L0592: 1, L0608: 1.</p>
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354	HCE4T64	566797	364	91 - 321	2961	His-4 to Thr-9 Ala-31 to Pro-36.	1, S0026: 1, S0194: 1 and H0543: 1. L0738: 8, L0748: 7, L0764: 5, L0754: 5, L0747: 5, L0779: 4, H0150: 3, L0757: 3, H0052: 2, H0009: 2, L0771: 2, L0768: 2, L0766: 2, L0774: 2, L0775: 2, L0596: 2, L0599: 2, H0171: 1, L0615: 1, H0265: 1, H0657: 1, S0116: 1, S0420: 1, S0408: 1, L0622: 1, L0015: 1, H0156: 1, T0082: 1, H0618: 1, H0204: 1, H0327: 1, H0544: 1, H0457: 1, H0172: 1, H0687: 1, H0040: 1, H0063: 1, L0351: 1, T0041: 1, H0280: 1, H0625: 1, L0369: 1, L0763: 1, L0638: 1, L0646: 1, L0648: 1, L0806: 1, L0657: 1, L0659: 1, L0809: 1, H0547: 1, H0638: 1, H0670: 1, H0539: 1, H0521: 1, H0576: 1, L0439: 1, L0786: 1, L0777: 1, L0752: 1, L0753: 1, L0755: 1, L0731: 1, S0434: 1, L0604: 1, S0424: 1 and H0506: 1.				
355	HCE4V88	792953	365	286 - 384	2962	Ser-21 to Thr-32.	AR089: 15, AR316: 11, AR060: 7 L0601: 17, L0747: 11, H0255: 10, L0766: 10, L0659: 9, H0521: 9, L0439: 9, H0457: 8, L0750: 8, H0543: 8, H0052: 7, L0665: 7, L0731: 7, L0757: 7, L0662: 6, L0751: 6, H0012: 5, H0617: 5, L0763: 5, L0666: 5, L0740: 5, H0443: 5, H0656: 4, S0418: 4, S0360: 4, H0580: 4, H0549: 4, H0550: 4, H0050: 4, H0620: 4, H0551: 4, H0494: 4, L0646: 4, L0775: 4, L0663: 4, H0547: 4, H0660: 4, H0555:				

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4, L0593; 4, L0595; 4, H0650;	
3, H0341; 3, H0484; 3, S0278;	
3, H0575; 3, H0253; 3, H0318;	
3, H0581; 3, H0251; 3, S0250;	
3, H0039; 3, H0124; 3, H0063;	
3, T0042; 3, S0210; 3, L0770;	
3, L0769; 3, L0761; 3, L0749;	
3, H0542; 3, H0423; 3, H0422;	
3, H0225; 2, H0657; 2, H0483;	
2, S0358; 2, H0619; 2, L0717;	
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2, H0250; 2, H0618; 2, H0545;	
2, H0009; 2, L0471; 2, H0083;	
2, H0286; 2, H0252; 2, H0135;	
2, H0264; 2, S0440; 2, H0509;	
2, H0646; 2, L0638; 2, L0648;	
2, L0767; 2, L0649; 2, L0774;	
2, L0378; 2, L0653; 2, L0655;	
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1, H0306; 1, H0125; 1, S0356;	
1, S0376; 1, S0222; 1, H0441;	
1, H0609; 1, H0586; 1, H0333;	
1, H0427; 1, H0590; 1, S0049;	
1, H0194; 1, H0309; 1, H0544;	
1, H0041; 1, H0024; 1, S0388;	
1, H0067; 1, H0271; 1, H0687;	
1, H0292; 1, H0284; 1, H0615;	
1, H0688; 1, H0428; 1, H0213;	
1, H0628; 1, H0181; 1, H0668;	
1, H0598; 1, H0090; 1, H0634;	
1, H0087; 1, H0116; 1, T0067;	

356	HCE5B62	566864	366	204 - 293	2963				1, H0100: 1, T0041: 1, H0279: 1, H0334: 1, H0625: 1, H0561: 1, S0142: 1, S0422: 1, S0002: 1, S0426: 1, L0796: 1, L0639: 1, L0667: 1, L0800: 1, L0643: 1, L0773: 1, L0363: 1, L0803: 1, L0375: 1, L0654: 1, L0776: 1, L0657: 1, L0658: 1, L0382: 1, L0352: 1, H0519: 1, H0593: 1, H0435: 1, H0659: 1, H0648: 1, H0672: 1, S0328: 1, S0330: 1, H0539: 1, H0696: 1, S0044: 1, H0436: 1, S0028: 1, L0777: 1, H0668: 1, H0653: 1, S0196: 1, S0424: 1, S0458: 1 and L0600: 1.		
357	HCE5H86	847032	367	288 - 482	2964	Leu-30 to Gly-35.	H0052: 1 AR089: 17, AR316: 15, AR060: 12 H0617: 7, L0750: 7, H0556: 5, L0769: 5, L0783: 5, L0758: 5, L0759: 5, L0665: 4, L0741: 4, S0132: 3, L0761: 3, L0742: 3, L0439: 3, L0755: 3, L0592: 3, H0618: 2, H0620: 2, H0038: 2, L0771: 2, L0662: 2, L0659: 2, L0666: 2, S0126: 2, H0670: 2, S0328: 2, S0380: 2, L0747: 2, L0753: 2, L0731: 2, H0395: 1, H0295: 1, H0294: 1, H0657: 1, H0656: 1, H0341: 1, H0484: 1, H0663: 1, H0638: 1, S0356: 1, S0444: 1, H0549: 1, H0550: 1, H0370: 1, H0455: 1, H0632: 1, H0486: 1, T0039: 1, T0112: 1, H0156: 1, H0581: 1, H0052: 1, H0545: 1, H0046: 1, H0150: 1, H0081: 1, S0051: 1, H0107: 1, H0061: 1, H0188: 1, H0288: 1, S0250: 1, H0428: 1, H0135:	2p12	147200, 178640, 216900		

358	HCE5164	688883	368	114 - 233	2965				1, H0163: 1, H0090: 1, H0616: 1, T0004: 1, S0438: 1, L0770: 1, L0796: 1, L0637: 1, L0772: 1, L0372: 1, L0646: 1, L0521: 1, L0768: 1, L0766: 1, L5574: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0776: 1, L0657: 1, L0658: 1, L0540: 1, L0384: 1, L0809: 1, L0663: 1, L0438: 1, H0672: 1, S0188: 1, S0406: 1, H0436: 1, H0576: 1, S3014: 1, L0748: 1, L0779: 1, L0757: 1 and H0506: 1.		
359	HCEB54	847033	369	197 - 586	2966	Pro-71 to Lep-83. Pro-119 to Ser-129.			AR060: 4, AR089: 4, AR251: 3, AR249: 3, AR316: 3, AR253: 3, AR274: 2, AR310: 2, AR291: 2, AR269: 2, AR175: 2, AR293: 2, AR273: 2, AR104: 2, AR182: 2, AR284: 2, AR313: 1, AR229: 1, AR267: 1, AR312: 1, L0794: 2, L0803: 2, L0655: 2, L0665: 2, H0684: 2, L0754: 2, L0747: 2, H0686: 1, L0470: 1, H0662: 1, H0125: 1, S0360: 1, L0021: 1, H0052: 1, H0085: 1, H0597: 1, H0009: 1, S0362: 1, H0644: 1, H0673: 1, L0060: 1, H0560: 1, L0638: 1, L0761: 1, L0373: 1, L0765: 1, L0774: 1, L0805: 1, L0809: 1, L0790: 1, L0666: 1, L0664: 1, H0689: 1, H0682: 1, H0660: 1, L0742: 1, L0748: 1, S0434: 1, L0592: 1, L0608: 1, L0601: 1, H0542: 1 and H0423: 1.	Xp11	300047, 300136, 309470, 309545, 309610
360	HCECO77	571044	370	124 - 324	2967	Pro-31 to Pro-37.			L0747: 15, L0748: 11, and H0423: 1.	20p13-p12.2	192340, 234200

361	HCEDH42	821321	371	71 - 238	2968	Lys-36 to Glu-44.	<p>L0749: 11, L0731: 10, L0754: 9, L0779: 7, L0777: 7, L0750: 6, H0556: 5, H0547: 5, L0759: 5, H0620: 4, H0135: 4, L0769: 4, L0766: 4, H0660: 4, L0757: 4, L0603: 4, L0803: 3, H0520: 3, L0758: 3, H0333: 2, H0156: 2, L0471: 2, L0761: 2, L0774: 2, L0776: 2, L0789: 2, H0521: 2, L0741: 2, L0744: 2, L0751: 2, L0745: 2, L0752: 2, L0596: 2, H0685: 1, H0483: 1, H0638: 1, S0358: 1, H0619: 1, L0717: 1, H0441: 1, H0013: 1, H0635: 1, H0052: 1, H0150: 1, H0041: 1, H0123: 1, H0081: 1, H0050: 1, H0024: 1, H0037: 1, H0099: 1, H0031: 1, H0673: 1, H0591: 1, H0087: 1, H0269: 1, H0059: 1, L0065: 1, S0144: 1, L0770: 1, L0645: 1, L0771: 1, L0521: 1, L0662: 1, L0794: 1, L0807: 1, L0783: 1, L0809: 1, L0367: 1, L0788: 1, L0666: 1, H0144: 1, H0648: 1, H0539: 1, S0152: 1, H0522: 1, S0044: 1, S0146: 1, S0037: 1, L0736: 1, L0786: 1, L0780: 1, H0665: 1, H0542: 1, H0423: 1, H0422: 1, S0424: 1, H0506: 1 and H0293: 1.</p> <p>H0052: 1</p>	2q35	<p>118800, 123660, 125660, 125660, 193500, 193500, 193500, 193500, 201460, 205100, 237300, 262000, 600266, 601277</p>
362	HCEDJ05	634525	372	67 - 207	2969		<p>L0439: 6, L0777: 5, L0438: 2, L0747: 2, L0756: 2, H0351: 1, H0052: 1, L0663: 1, L0352:</p>		

363	HCEDJ26	840397	373	1004 - 1009	2970	<p>1 and S0412: 1, L0439: 30, L0740: 12, L0438: 9, L0742: 9, L0758: 8, S0022: 6, L0779: 6, S0356: 5, L0771: 5, L0659: 5, S0360: 4, L0748: 4, L0592: 4, L0595: 4, S0242: 4, H0265: 3, S0007: 3, H0619: 3, S0003: 3, S0214: 3, H0031: 3, H0488: 3, L0766: 3, L0774: 3, L0805: 3, L0653: 3, S0126: 3, L0754: 3, L0759: 3, L0596: 3, L0005: 2, H0097: 2, H0599: 2, H0318: 2, H0421: 2, H0051: 2, S0208: 2, H0039: 2, L0142: 2, L0564: 2, L0770: 2, L0769: 2, L0764: 2, L0649: 2, L0776: 2, L0666: 2, L0663: 2, L0665: 2, H0144: 2, H0638: 2, H0648: 2, S0152: 2, H0522: 2, L0756: 2, L0777: 2, L0752: 2, S0260: 2, L0485: 2, L0593: 2, H0556: 1, S0134: 1, S0116: 1, S0282: 1, H0662: 1, S0418: 1, S0420: 1, S0354: 1, S0358: 1, L0149: 1, S0045: 1, S0140: 1, H0351: 1, H0550: 1, H0586: 1, H0587: 1, H0574: 1, H0486: 1, H0013: 1, H0244: 1, H0427: 1, H0042: 1, H0575: 1, H0590: 1, S0010: 1, S0474: 1, S0049: 1, H0052: 1, H0194: 1, H0309: 1, H0597: 1, H0545: 1, H0046: 1, L0157: 1, S0362: 1, S0388: 1, S0051: 1, H0335: 1, L0266: 1, H0615: 1, H0622: 1, L0055: 1, H0032: 1, H0169: 1, H0598: 1, S0036: 1, H0591: 1, H0038: 1, H0616: 1, H0087: 1, H0272: 1, S0038: 1, H0494: 1, H0561: 1, S0210: 1, H0529: 1, L0762: 1,</p>		
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364	HCEDN07	847034	374	126 - 248	2971	Ser-15 to Asp-22, Leu-26 to Ala-33.	L0637: 1, L0772: 1, L0372: 1, L0644: 1, L0521: 1, L0803: 1, L0775: 1, L0376: 1, L0657: 1, L0515: 1, L0526: 1, L0788: 1, H0682: 1, H0435: 1, H0539: 1, S0380: 1, H0521: 1, S0392: 1, H0478: 1, L0751: 1, S0031: 1, L0599: 1, L0594: 1, L0601: 1, L0603: 1, L0366: 1, S0026: 1, S0192: 1, S0196: 1, H0543: 1, H0423: 1 and H0506: 1.			
365	HCED017	824312	375	608 - 712	2972		L0748: 3, H0170: 1, H0575: 1, H0052: 1, H0039: 1 and L0793: 1.	21q22.2	176261, 601399	
366	HCEEG48	896688	376	242 - 307	2973		AR089: 4 AR060: 5, AR316: 5, L0438: 6, L0439: 6, L0754: 5, H0422: 2, H0638: 1, H0600: 1, H0581: 1, H0434: 1, H0052: 1, S0051: 1, T0010: 1, L0055: 1, H0032: 1, S0386: 1, L0520: 1, L0770: 1, L0521: 1, L0803: 1, L0375: 1, L0518: 1, L0793: 1, L0666: 1, L0665: 1, H0547: 1, H0683: 1, H0522: 1, H0436: 1, L0741: 1, L0751: 1, L0777: 1, L0686: 1 and L0608: 1.			
367	HCEEM33	821322	377	244 - 351	2974		AR089: 32, AR316: 24, AR060: 16 H0052: 2, H0261: 1, H0257: 1, L0657: 1, L0790: 1 and L0777: 1.	13q13	157900, 600631	
368	HCEEP16	668234	378	276 - 281	2975		L0439: 5, L0779: 2, L0777: 2, L0759: 2, H0156: 1, S0010: 1, S0049: 1, H0052: 1, H0328: 1, L0794: 1, L0804: 1, H0144: 1, L0438: 1, L0352: 1, L0758: 1, L0589: 1 and S0412: 1.			
							AR060: 4, AR316: 3.			

369	HCEER60	826016	379	18 - 104	2976		AR089: 2 H0052: 1, H0591: 1, H0132: 1, H0131: 1, S0422: 1, H0659: 1, L0779: 1 and L0780: 1.		
370	HCEFA10	603966	380	282 - 296	2977		H0599: 2, L0439: 2, H0052: 1, L0639: 1, L0792: 1 and S0328: 1.		
371	HCEFA50	695707	381	223 - 228	2978		L0517: 2, S0114: 1, H0656: 1, S0474: 1, H0052: 1, H0179: 1, H0416: 1, H0169: 1, H0538: 1 and L0758: 1.		
372	HCEFA94	822850	382	232 - 285	2979		H0052: 1		
373	HCEFC27	637551	383	224 - 340	2980	Thr-33 to Trp-38.	AR060: 7, AR316: 5, AR089: 2 S0003: 27, L0766: 7, L0438: 5, L0745: 5, S0214: 3, L0439: 3, L0754: 3, L0731: 3, H0635: 2, L0803: 2, L0776: 2, H0144: 2, H0519: 2, L0746: 2, L0756: 2, L0759: 2, L0592: 2, S0400: 1, H0663: 1, S0356: 1, S0222: 1, H0431: 1, H0442: 1, H0574: 1, H0013: 1, H0098: 1, H0036: 1, H0318: 1, H0052: 1, H0563: 1, H0014: 1, H0510: 1, S6028: 1, H0031: 1, H0553: 1, H0644: 1, H0032: 1, S0036: 1, H0591: 1, H0634: 1, T0041: 1, S0382: 1, L0761: 1, L0794: 1, L0774: 1, L0775: 1, L0607: 1, L0659: 1, L0666: 1, H0701: 1, H0520: 1, S0122: 1, H0435: 1, H0659: 1, H0518: 1, S0152: 1, H0555: 1, L0752: 1, L0684: 1, S0026: 1, H0543: 1 and H0422: 1.		
374	HCEFC93	745400	384	166 - 207	2981		AR089: 18, AR316: 13, AR060: 8 H0052: 1		123100, 153880, 180104, 601649

375	HCEFH31	801890	385	260 - 439	2982	Pro-6 to Gln-11, Pro-32 to Arg-37, His-41 to Trp-46, Pro-49 to Gly-54.	H0545: 30, H0673: 13, S0436: 12, H0544: 11, L0731: 8, S0356: 5, H0546: 5, H0424: 5, L0651: 5, L0794: 4, L0659: 4, H0124: 3, L0771: 3, L0662: 3, L0518: 3, L0809: 3, L0666: 3, L0747: 3, H0717: 2, H0661: 2, S0360: 2, H0550: 2, H0156: 2, H0052: 2, H0086: 2, H0024: 2, L0533: 2, L0803: 2, L0804: 2, L0663: 2, H0696: 2, L0751: 2, H0713: 1, H0662: 1, H0402: 1, T0008: 1, H0619: 1, H0369: 1, H0549: 1, H0392: 1, H0587: 1, H0331: 1, T0039: 1, H0042: 1, H0581: 1, H0050: 1, H0328: 1, H0039: 1, H0622: 1, H0553: 1, H0032: 1, H0165: 1, H0166: 1, H0169: 1, H0135: 1, S0464: 1, S0438: 1, H0647: 1, L0763: 1, L0639: 1, L5566: 1, L0761: 1, L0644: 1, L0648: 1, L0375: 1, L0526: 1, L0782: 1, L0384: 1, L0647: 1, L0367: 1, L0790: 1, L0791: 1, L0438: 1, H0684: 1, H0660: 1, S0328: 1, H0539: 1, H0521: 1, H0345: 1, S014: 1, L0748: 1, L0780: 1, L0757: 1, L0759: 1, S0192: 1 and H0352: 1.		203800, 602404
376	HCEFK56	872554	386	79 - 2091	2983	Lys-21 to Lys-26, Glu-31 to Gly-38, Leu-184 to Ile-191, Gln-193 to Asp-206, Pro-278 to Leu-286, Gln-305 to Pro-319, Ala-380 to Glu-397, Arg-403 to Thr-412, Leu-423 to Thr-441, Thr-590 to Lys-595.	H0052: 11, H0617: 11, L0741: 9, L0747: 8, H0618: 7, L0439: 7, H0305: 6, L0438: 6, L0659: 5, S0040: 4, S0358: 4, S0222: 4, H0599: 4, H0046: 4, H0050: 4, T0010: 4, L0769: 4, L0662: 4, L0766: 4, L0774: 4, L0753: 4, L0759: 4, L0005: 3, H0370: 3, H0253: 3, H0181: 3, H0038: 3, H0616: 3, S0038: 3.	2p13	

0750087-09101

Thr-602 to Gly-608, Ala-626 to Asp-633.	L0351: 3, L0794: 3, L0775: 3, L0666: 3, L0663: 3, L0744: 3, L0740: 3, L0779: 3, L0771: 3, L0731: 3, L0757: 3, L0758: 3, L0366: 3, H0255: 2, H0662: 2, S0418: 2, S0420: 2, S0049: 2, H0327: 2, H0428: 2, S0036: 2, H0135: 2, H0040: 2, H0488: 2, H0100: 2, H0494: 2, L0598: 2, L0762: 2, L0770: 2, L0638: 2, L0372: 2, L0767: 2, L0809: 2, L0664: 2, H0658: 2, L0748: 2, L0755: 2, L0596: 2, L0588: 2, H0136: 2, S0276: 2, H0542: 2, H0265: 1, H0556: 1, T0002: 1, H0295: 1, H0650: 1, S0212: 1, S0282: 1, H0589: 1, S0356: 1, S0354: 1, S0360: 1, H0580: 1, S0046: 1, H0393: 1, L0717: 1, H0411: 1, H0438: 1, H0586: 1, H0587: 1, H0485: 1, H0427: 1, H0156: 1, H0122: 1, S0010: 1, H0194: 1, H0597: 1, H0031: 1, S0388: 1, S0051: 1, H0355: 1, H0266: 1, H0688: 1, T0006: 1, H0606: 1, H0674: 1, L0456: 1, H0124: 1, H0068: 1, S0366: 1, T0004: 1, L0564: 1, H0560: 1, L0065: 1, S0150: 1, H0538: 1, L0371: 1, L0637: 1, L0772: 1, L0800: 1, L0641: 1, L0764: 1, L0648: 1, L0521: 1, L0768: 1, L0803: 1, L0375: 1, L0378: 1, L0657: 1, L0658: 1, L0517: 1, L0783: 1, L0519: 1, L0647: 1, L0787: 1, L0790: 1, L0665: 1, H0520: 1, H0519: 1, S0126: 1, H0690: 1, H0435: 1, H0659: 1, S0044: 1, H0134: 1, H0436: 1, S0037: 1, L0743: 1, L0731: 1,
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377	HCEFFN51	839253	387	113 - 250	2984	Lys-31 to Asn-39.	<p>L0754: 1, L0745: 1, L0752: 1, S0031: 1, S0260: 1, S0394: 1, L0584: 1, L0599: 1, L0601: 1, S0192: 1, S0194: 1, H0543: 1, H0423: 1, H0506: 1 and H0352: 1.</p> <p>L0754: 19, L0439: 12, L0752: 9, L0596: 9, L0759: 6, H0013: 5, H0090: 5, L0662: 5, L0766: 5, H0682: 5, H0436: 5, L0756: 5, L0483: 4, H0553: 4, H0591: 4, L0775: 4, L0362: 4, H0423: 4, H0536: 3, S0134: 3, L0005: 3, H0156: 3, L0776: 3, L0809: 3, H0435: 3, H0659: 3, S0028: 3, L0747: 3, L0777: 3, H0543: 3, T0002: 2, S0114: 2, S0001: 2, S0358: 2, S0476: 2, S0222: 2, S0010: 2, H0318: 2, H0373: 2, L0163: 2, H0266: 2, H0615: 2, T0006: 2, L0143: 2, H0560: 2, S0210: 2, L0761: 2, L0771: 2, L0774: 2, L0805: 2, L0577: 2, L0659: 2, L0788: 2, H0144: 2, L0565: 2, H0520: 2, H0547: 2, L0755: 2, H0542: 2, H0265: 1, T0049: 1, H0650: 1, H0657: 1, H0656: 1, S0116: 1, H0341: 1, H0305: 1, S0442: 1, S0444: 1, S0360: 1, H0580: 1, H0208: 1, S0046: 1, S6026: 1, H0635: 1, H0599: 1, H0147: 1, S0346: 1, S0049: 1, H0052: 1, H0083: 1, H0263: 1, H0596: 1, L0040: 1, H0544: 1, L0157: 1, H0564: 1, H0569: 1, H0050: 1, L0471: 1, H0014: 1, S0051: 1, H0375: 1, S6028: 1, S0250: 1, H0428: 1, H0644: 1, H0598: 1, H0040: 1, H0634: 1, H0494: 1.</p>
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378	HCEGG08	844506	388	1114 - 1197	2985	<p>H0561: 1, S0440: 1, S0150: 1, H0130: 1, L0625: 1, L0770: 1, L0373: 1, L0646: 1, L0764: 1, L0773: 1, L0767: 1, L0364: 1, L0803: 1, L0650: 1, L0375: 1, L0657: 1, L0526: 1, L0529: 1, L0647: 1, L0790: 1, L0793: 1, L0666: 1, L0664: 1, L0665: 1, S0053: 1, H0701: 1, L0352: 1, H0593: 1, H0689: 1, H0711: 1, H0658: 1, H0648: 1, H0672: 1, S0330: 1, S0152: 1, H0579: 1, S0013: 1, S0146: 1, H0576: 1, S0390: 1, S0027: 1, L0744: 1, L0746: 1, L0779: 1, L0731: 1, S0260: 1, S0434: 1, S0011: 1, S0276: 1 and H0422: 1.</p>		
						<p>AR060: 5, AR316: 4, AR089: 4 L0439: 15, H0052: 11, S0007: 9, L0438: 6, L0731: 6, L0779: 5, L0754: 4, H0550: 3, L0769: 3, S0126: 3, L0743: 3, H0194: 2, H0687: 2, H0623: 2, L0768: 2, L0776: 2, L0659: 2, L0666: 2, L0663: 2, H0689: 2, S0330: 2, L0748: 2, L0786: 2, L0777: 2, L0752: 2, L0758: 2, L0608: 2, H0352: 2, H0662: 1, S0356: 1, S0354: 1, S0444: 1, S0045: 1, S0476: 1, H0441: 1, H0431: 1, H0333: 1, H0642: 1, H0575: 1, H0590: 1, T0048: 1, H0150: 1, H0024: 1, S0050: 1, S0388: 1, H0252: 1, H0039: 1, H0135: 1, H0038: 1, H0264: 1, H0059: 1, H0494: 1, L0770: 1, L0372: 1, L0646: 1, L0521: 1, L0794: 1, L0803: 1, L0775: 1, L0653: 1, L0657: 1, L0809: 1,</p>		

379	HCEGH74	847036	389	203 - 373	2986	Gly-31 to Gly-46.	L0792: 1, L0664: 1, H0144: 1, L0352: 1, H0519: 1, H0593: 1, H0658: 1, H0672: 1, H0539: 1, S0406: 1, L0751: 1, L0749: 1, L0756: 1, L0753: 1 and H0506: 1. L0439: 4, H0052: 3, L0747: 3, H0529: 2, H0547: 2, L0748: 2, L0759: 2, H0423: 2, H0254: 1, H0369: 1, H0392: 1, H0575: 1, H0457: 1, H0009: 1, H0081: 1, S0051: 1, T0010: 1, H0553: 1, H0708: 1, S0036: 1, H0100: 1, L0769: 1, L0637: 1, L0761: 1, L0375: 1, L0659: 1, H0520: 1, S0028: 1, L0743: 1, L0749: 1, L0750: 1, L0753: 1, L0755: 1, L0758: 1 and H0352: 1.	17q24	115660, 139250, 148500, 150200, 154275, 162100, 170500, 170500, 170500, 182452, 230200, 249000, 253250
380	HCEGK81	844452	390	72 - 254	2987		H0052: 2, L0769: 2, L0759: 2, H0265: 1, H0331: 1, H0545: 1, H0031: 1, H0553: 1, L0369: 1, L0764: 1 and H0435: 1.		
381	HCEGS49	846298	391	145 - 330	2988		H0052: 3, S0280: 1, H0328: 1, H0615: 1 and H0674: 1.		
382	HCEGU75	658670	392	84 - 179	2989	Cys-3 to His-22.	L0758: 5, S0358: 4, L0439: 4, S0356: 3, L0751: 3, L0747: 3, L0779: 3, H0265: 2, H0381: 2, H0331: 2, H0052: 2, H0009: 2, L0157: 2, H0617: 2, L0769: 2, L0806: 2, L0783: 2, L0750: 2, S0436: 2, H0556: 1, H0685: 1, L0619: 1, L0005: 1, S0444: 1, H0619: 1, H0587: 1, H0566: 1, H0051: 1, H0083: 1, T0006: 1, L0055: 1, H0316: 1, H0135: 1, H0616: 1, H0551: 1, H0494: 1, L0372: 1, L0648: 1, L0768: 1, L0803: 1, L0379: 1, L0807: 1, L0659: 1, L0793: 1, L0665: 1, H0520: 1, H0547: 1, H0689:	9q34.1	103000, 114350, 120900, 131195, 185000, 189980, 600184, 602575, 602575

383	HCEGY33	753258	393	174 - 221	2990	<p>1, H0539: 1, H0522: 1, H0606: 1, S5012: 1, S5014: 1, L0748: 1, L0777: 1, H0543: 1 and H0506: 1.</p> <p>AR251: 51, AR265: 32, AR263: 31, AR309: 30, AR313: 30, AR310: 28, AR274: 28, AR312: 26, AR053: 26, AR273: 21, AR096: 21, AR052: 20, AR219: 19, AR213: 19, AR247: 18, AR183: 18, AR253: 18, AR243: 18, AR248: 18, AR218: 17, AR175: 17, AR240: 14, AR292: 13, AR249: 13, AR282: 13, AR299: 13, AR177: 12, AR271: 12, AR295: 12, AR256: 12, AR241: 12, AR283: 11, AR244: 11, AR293: 10, AR186: 10, AR179: 10, AR266: 10, AR185: 10, AR290: 10, AR275: 9, AR285: 9, AR300: 9, AR089: 9, AR267: 9, AR104: 8, AR289: 8, AR286: 8, AR296: 8, AR294: 8, AR231: 8, AR055: 8, AR198: 8, AR314: 7, AR033: 7, AR259: 7, AR280: 7, AR192: 7, AR258: 7, AR291: 7, AR208: 6, AR316: 6, AR182: 6, AR269: 6, AR226: 6, AR232: 6, AR284: 6, AR238: 6, AR229: 6, AR315: 6, AR270: 6, AR234: 6, AR298: 6,</p>
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384	HCEHW24	560610	394	29 - 49	2991		AR237: 5, AR061: 5, AR184: 5, AR277: 5, AR206: 5, AR039: 5, AR205: 4, AR194: 4, AR060: 3, AR227: 3, AR202: 3, AR233: 3, AR204: 3, AR281: 2 H0581: 2, L0749: 2, L0779: 2, L0758: 2, H0341: 1, S0376: 1, S0046: 1, H0392: 1, H0590: 1, H0052: 1, L0376: 1, L0515: 1, L0791: 1, H0539: 1 and L0601: 1.			
385	HCEJL08	722208	395	175 - 624	2992	Trp-114 to Thr-131.	AR089: 8, AR316: 7, AR060: 5 H0052: 1 L0439: 5, L0731: 3, L0769: 2, L0766: 2, L0649: 2, L0783: 2, L0519: 2, L0751: 2, L0757: 2, L0485: 2, H0265: 1, S0354: 1, S0358: 1, S0376: 1, S0046: 1, S0278: 1, H0549: 1, H0036: 1, H0052: 1, H0046: 1, H0009: 1, H0024: 1, H0039: 1, S0366: 1, H0135: 1, H0494: 1, H0647: 1, S0344: 1, H0538: 1, L0770: 1, L0772: 1, L0764: 1, L0775: 1, L0376: 1, L0542: 1, L0666: 1, H0702: 1, L0438: 1, H0520: 1, H0547: 1, H0593: 1, L0752: 1, L0758: 1 and H0352: 1.	Xq28	300031, 300044, 300048, 300049, 300049, 300055, 300100, 300100, 300104, 300126, 301201, 301590, 302060, 302060, 302060, 302060, 302960, 303700, 303800, 303900, 304800, 305900, 305900, 305900, 306700, 306995, 308310, 308840, 308840, 308840, 309200, 309548, 309620, 309900, 310300, 310400, 310460, 310460, 311300, 311510, 314300, 314400	
386	HCEJP93	637533	396	20 - 91	2993	Lys-2 to Gln-7.	AR060: 6, AR316: 5, AR089: 4 L0747: 6, L0755: 4, L0759:			

387	HCELB04	847375	397	108-284	2994	Gly-42 to Ala-49.	<p>4, L0769: 3, L0771: 3, L0439: 3, L0777: 3, H0052: 2, H0266: 2, L0766: 2, L0375: 2, L0740: 2, L0749: 2, L0752: 2, L0589: 2, L0581: 2, H0423: 2, H0556: 1, H0458: 1, H0393: 1, H0549: 1, H0331: 1, H0581: 1, H0024: 1, H0014: 1, H0687: 1, H0028: 1, H0135: 1, T0067: 1, H0100: 1, L0770: 1, L0643: 1, L0764: 1, L0768: 1, L0794: 1, L0803: 1, L0774: 1, L0653: 1, L0809: 1, L0790: 1, L0791: 1, H0455: 1, H0658: 1, L0756: 1, L0786: 1 and S0196: 1.</p> <p>AR227: 282, AR229: 256, AR226: 235, AR104: 231, AR298: 214, AR061: 209, AR055: 204, AR233: 203, AR237: 200, AR185: 190, AR300: 186, AR186: 183, AR232: 173, AR060: 167, AR234: 164, AR179: 158, AR033: 143, AR182: 131, AR284: 129, AR192: 125, AR299: 124, AR314: 123, AR275: 119, AR267: 116, AR293: 112, AR175: 109, AR259: 107, AR316: 106, AR198: 105, AR294: 104, AR238: 104, AR231: 102, AR315: 99, AR289: 98, AR205: 98, AR204: 89, AR206: 88, AR286: 87, AR249: 87, AR248: 87, AR258: 86, AR184: 85, AR256: 84, AR243: 82, AR280: 79, AR285: 79, AR282: 77, AR052: 74, AR266: 73, AR219: 73,</p>	14q11.2-14q21.3	182600, 186880, 190195, 190195, 222700, 232700, 600243, 602086, 602279, 602279
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388	HCEMA08	846468	398	37 - 219	2995	Gly-24 to Gly-36, Gly-48 to Arg-60.	ARI77: 72, AR291: 71, AR292: 69, AR283: 67, AR295: 67, AR053: 67, AR240: 67, AR218: 65, AR290: 64, AR183: 64, AR247: 64, AR089: 62, AR268: 61, AR270: 61, AR273: 59, AR269: 58, AR312: 57, AR281: 56, AR213: 55, AR274: 55, AR309: 54, AR251: 54, AR039: 52, AR241: 52, AR313: 50, AR296: 49, AR277: 48, AR246: 45, AR253: 44, AR310: 44, AR271: 42, AR194: 41, AR096: 38, AR244: 35, AR265: 34, AR202: 28, AR263: 26 L0741: 8, H0052: 6, L0769: 6, L0636: 5, S0222: 4, L0770: 3, L0742: 3, L0439: 3, L0747: 3, L0758: 3, L0692: 3, S0276: 3, H0662: 2, L0005: 2, H0550: 2, H0333: 2, H0424: 2, L3905: 2, L0750: 2, H0624: 1, S0001: 1, S0282: 1, S0045: 1, S6026: 1, L0717: 1, H0549: 1, S6016: 1, H0592: 1, S0010: 1, H0390: 1, S0049: 1, H0544: 1, H0178: 1, H0051: 1, T0010: 1, L0456: 1, H0064: 1, S0036: 1, H0135: 1, S0038: 1, H0100: 1, L0631: 1, L0646: 1, L0794: 1, L0776: 1, L0659: 1, L0792: 1, L0666: 1, L0663: 1, L0779: 1, L0752: 1, L0753: 1, S0434: 1 and L0366: 1.	lpter-p12
							AR060: 37, AR316: 36, AR089: 34	

389	HCENNG67	563013	399	56 - 217	2996			S0358: 4, L0759: 4, L0604: 4, H0083: 3, L0747: 3, H0657: 2, H0341: 2, H0484: 2, S0222: 2, H0052: 2, S0364: 2, H0038: 2, H0413: 2, L0768: 2, L0774: 2, L0775: 2, H0638: 2, L0757: 2, L0758: 2, L0588: 2, L0581: 2, S0026: 2, S0114: 1, S0282: 1, H0638: 1, S0444: 1, S0360: 1, S0410: 1, S0045: 1, S0046: 1, S0132: 1, H0619: 1, H0550: 1, H0559: 1, L0622: 1, H0486: 1, L0114: 1, T0082: 1, H0421: 1, H0173: 1, H0231: 1, L0738: 1, H0688: 1, H0428: 1, H0213: 1, H0166: 1, H0616: 1, H0509: 1, H0131: 1, S0422: 1, H0529: 1, L0763: 1, L0769: 1, L0764: 1, L0662: 1, L0766: 1, L0783: 1, H0670: 1, S0380: 1, H0214: 1, S0028: 1, L0741: 1, L0742: 1, L0754: 1, L0749: 1, L0731: 1, S0436: 1, L0608: 1, L0601: 1, H0136: 1 and H0352: 1. AR060: 6, AR316: 5, AR089: 3 L0439: 5, L0438: 2, S6024: 1, H0052: 1, H0009: 1, H0051: 1, H0424: 1, S0352: 1, L0794: 1, L0803: 1, L0790: 1 and S0106: 1.
390	HCENQ22	740746	400	263 - 370	2997			AR089: 58, AR316: 46, AR060: 36 H0052: 3, L0355: 2, H0580: 1 and H0014: 1. H0032: 1 and H0038: 1. H0032: 1 and H0038: 1 L0439: 10, L0766: 8, L0438: 3, L0747: 3, L0731: 3, L0803: 3.
391	HCEOF01	564906	401	242 - 358	2998	Met-1 to Gly-6		
392	HCEOF01	850521	402	242 - 358	2999	Met-1 to Gly-6		
393	HCEON94	564499	403	603 - 686	3000			

394	HCEOQ67	847376	404	18 - 116	3001	Met-1 to Leu-7.	<p>2, L0792: 2, L0743: 2, L0756: 2, H0542: 2, H0032: 1, S0002: 1, L0637: 1, L0768: 1, L0775: 1, L0663: 1, L0664: 1, L0665: 1, H0660: 1, L0749: 1, L0752: 1 and H0543: 1.</p> <p>H0641: 36, H0521: 47, L0769: 20, L0794: 20, L0747: 18, H0638: 17, H0522: 13, H0494: 11, H0620: 7, H0560: 7, L0768: 7, L0770: 6, H0519: 6, L0758: 6, L0759: 6, H0123: 5, H0087: 5, H0531: 5, H0100: 5, L0757: 5, H0624: 4, S0408: 4, S0045: 4, H0032: 4, H0327: 4, H0545: 4, H0135: 4, H0561: 4, H0529: 4, L0806: 4, L0653: 4, S0152: 4, L0731: 4, H0637: 3, S0007: 3, H0393: 3, H0024: 3, H0646: 3, L0807: 3, L0659: 3, L0663: 3, H0435: 3, L0750: 3, H0352: 3, H0170: 2, H0295: 2, H0341: 2, S0212: 2, H0662: 2, S0420: 2, H0645: 2, H0550: 2, H0333: 2, H0559: 2, H0486: 2, S0280: 2, H0594: 2, H0266: 2, H0288: 2, H0428: 2, H0039: 2, H0124: 2, H0316: 2, S0036: 2, H0488: 2, H0412: 2, H0413: 2, H0623: 2, H0625: 2, L0667: 2, L0772: 2, L0646: 2, L0803: 2, L0655: 2, L0792: 2, H0593: 2, S0014: 2, S0028: 2, L0749: 2, L0779: 2, L0601: 2, L0603: 2, S0424: 2, H0171: 1, H0556: 1, H0713: 1, H0717: 1, S6024: 1, H0294: 1, S0001: 1, S0282: 1, H0254: 1, H0255: 1, H0661: 1, L0534: 1, L0539: 1, S0046: 1, S0152: 1, L0717: 1, H0351: 1.</p>
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395	HCEOV48	850681	405	1563 - 1742	3002	Ile-23 to Lys-33, Gly-46 to Thr-53.	AR060: 6, AR316: 5, AR089: 5 H0553: 8, L0754: 8, L0603: 8, L0794: 6, L0758: 6, L0809: 5, S0358: 4, L0769: 4, H0030: 3, L0755: 3, H0265: 2, H0556: 2, S0278: 2, H0549: 2, L0789: 2, L0438: 2, L0750: 2, H0722: 1, S0132: 1, H0550: 1, H0586: 1, H0486: 1, H0635: 1, L0022: 1, H0318: 1, H0310: 1, H0052: 1, H0150: 1, H0009: 1, H0622: 1, H0031: 1, H0040: 1, H0494: 1, H0641: 1, H0647: 1, L0643: 1, L0764: 1, L0649: 1, L0804: 1, L0659: 1, L0793: 1, L0747: 1, L0756: 1, S0260: 1, H0665: 1 and L0698: 1.	1, S0222: 1, H0441: 1, H0587: 1, H0497: 1, H0642: 1, H0492: 1, H0013: 1, H0706: 1, H0581: 1, H0434: 1, H0309: 1, H0546: 1, H0086: 1, H0009: 1, H0050: 1, H0012: 1, T0010: 1, H0688: 1, H0553: 1, H0598: 1, H0163: 1, H0056: 1, S0440: 1, H0647: 1, S0208: 1, S0210: 1, S0002: 1, L0763: 1, L0638: 1, L5575: 1, L5566: 1, L0800: 1, L0764: 1, L0648: 1, L0363: 1, L0767: 1, L0650: 1, L0774: 1, L0378: 1, L0382: 1, L0787: 1, L0793: 1, L0666: 1, L0664: 1, L0565: 1, H0547: 1, H0689: 1, H0672: 1, H0651: 1, H0539: 1, H0709: 1, S0044: 1, H0626: 1, S0037: 1, L0741: 1, S0436: 1, L0605: 1, L0366: 1 and H0506: 1.
396	HCEPC90	603920	406	232 - 354	3003		H0052: 1	
397	HCEPO08	637543	407	190 - 198	3004		H00616: 8, H0038: 4, H0556: 3g29-qter	

398	HCESB03	812940	408	228 - 314	3005	Gly-23 to Gln-28.			3, L0766: 3, L0731: 3, H0265: 2, H0521: 2, H0522: 2, L0740: 2, L0589: 2, H0624: 1, S0360: 1, S0132: 1, H0645: 1, S0222: 1, H0497: 1, H0013: 1, S0010: 1, H0052: 1, H0194: 1, H0373: 1, S0214: 1, L0143: 1, H0628: 1, H0591: 1, H0551: 1, H0560: 1, S0150: 1, H0641: 1, L0649: 1, S0152: 1, H0576: 1, L0748: 1, L0754: 1, L0750: 1, L0777: 1, L0591: 1, S0026: 1, S0194: 1, H0543: 1 and H0008: 1. H0194: 1 and H0521: 1.	18q22	174810, 601567, 602080
399	HCESK44	584776	409	223 - 249	3006				ARI68: 52, ARI71: 49, ARI70: 46, ARI69: 30, AR225: 27, AR223: 26, AR210: 25, AR243: 23, AR219: 21, AR311: 19, AR215: 18, AR231: 17, AR264: 16, AR269: 16, AR214: 16, ARI65: 16, ARI95: 16, AR211: 16, AR312: 15, AR275: 15, AR218: 15, ARI91: 15, ARI64: 15, ARI80: 15, ARI66: 14, ARI62: 14, AR200: 14, ARI63: 14, ARI61: 14, ARI72: 14, ARI96: 14, AR238: 13, AR268: 13, ARI97: 13, AR089: 13, AR291: 13, ARI81: 13, ARI89: 12, AR250: 12, AR254: 12, AR240: 12, AR096: 11, AR290: 11, ARI88: 11, ARI83: 11, AR267: 11, AR253: 11, AR272: 11, AR270: 11, ARI316: 11, AR263: 11, ARI73: 11,		

400	HCEITE08	731957	410	227 - 289	3007		1, S0420: 1, S0444: 1, H0580: 1, S0468: 1, H0369: 1, H0586: 1, H0331: 1, H0194: 1, S0214: 1, H0688: 1, H0628: 1, L0598: 1, H0651: 1, S0380: 1, H0478: 1, L0742: 1, L0743: 1, L0777: 1 and S0242: 1.		
401	HCEITL19	702090	411	114 - 236	3008	Pro-16 to His-22.	L0439: 6, S0007: 3, L0742: 3, H0052: 2, H0150: 2, H0261: 1, H0013: 1, S0010: 1, L0024: 1, S0049: 1, H0194: 1, S6028: 1, L0794: 1, L0659: 1 and H0658: 1.		
402	HCEWDD90	771629	412	223 - 237	3009		AR060: 7, AR316: 5, AR089: 4 H0194: 2, H0550: 1, H0486: 1, H0328: 1, H0056: 1, L0657: 1 and S0053: 1.	20q13.31- 20q13.33	261680
403	HCEWI562	692350	413	158 - 274	3010		AR060: 6, AR316: 5, AR089: 4 H0255: 4, H0265: 2, S0358: 1, H0261: 1, S0222: 1, H0123: 1, H0201: 1, H0615: 1, H0040: 1, H0634: 1, H0063: 1, T0041: 1, L0775: 1, H0693: 1, L0748: 1 and L0754: 1.		
404	HCEZWI4	745401	414	141 - 146	3011		H0261: 1 and L0753: 1. AR089: 20, AR316: 15, AR060: 9 L0748: 2, L0749: 2, H0556: 1, L0623: 1, T0060: 1, H0510: 1, H0166: 1, H0673: 1, L0456: 1, H0625: 1, H0443: 1 and H0352: 1.	Opter-p21.31	
405	HCFAT42	815652	415	147 - 344	3012		H0422: 1		
406	HCFAT66	821337	416	119 - 241	3013	Gly-25 to Ser-40.	H0422: 1		
407	HCFBA30	608166	417	120 - 167	3014		L0805: 3, H0686: 1, H0580: 1, L0717: 1, H0373: 1, L0761: 1, L0662: 1, L0766: 1, L0375: 1.	6	

410	HCFCB72	824165	420	92 - 202	3017				1, L0065: 1, S0210: 1, S0422: 1, S0426: 1, L0598: 1, H0529: 1, L0763: 1, L0638: 1, L0761: 1, L0372: 1, L0764: 1, L0771: 1, L0773: 1, L0649: 1, L0381: 1, L0378: 1, L0655: 1, L0659: 1, L0809: 1, L0787: 1, L0664: 1, H0699: 1, S0374: 1, H0693: 1, H0547: 1, H0519: 1, H0593: 1, H0689: 1, H0682: 1, H0658: 1, H0672: 1, S0328: 1, S0380: 1, H0518: 1, H0696: 1, H0555: 1, H0478: 1, H0479: 1, S0390: 1, S3014: 1, L0747: 1, L0779: 1, L0755: 1, H0445: 1, L0480: 1, S0196: 1, H0423: 1 and L0697: 1		
411	HCFCG91	897509	421	1854 - 2741	3018	Lys-55 to Thr-63, Thr-96 to Glu-103, Arg-123 to Glu-136, Ala-152 to Glu-166, Glu-226 to Arg-234, Leu-248 to Glu-253, Glu-273 to Glu-282.	AR089: 11, AR316: 6, AR060: 3 L0770: 7, L0777: 7, S0406: 5, L0439: 5, L0758: 4, H0659: 3, H0717: 2, H0494: 2, L0598: 2, L0764: 2, L0655: 2, H0547: 2, H0521: 2, H0478: 2, L0748: 2, L0731: 2, L0595: 2, L0411: 1, H0657: 1, H0656: 1, H0663: 1, S0358: 1, H0329: 1, H0645: 1, H0639: 1, H0415: 1, H0455: 1, H0156: 1, L0021: 1, H0052: 1, T0110: 1, L0471: 1, H0687: 1, S0250: 1, H0428: 1, H0553: 1, H0166: 1, H0598: 1, H0040: 1, H0551: 1, S0386: 1, H0560: 1, H0509: 1, H0538: 1, UNKNWN: 1, L0763: 1, L0638: 1, L0646: 1, L0662: 1, L0364: 1, L0803: 1, L0659: 1, L0636: 1, L0783: 1, L0666: 1, H0520: 1, H0519: 1, S0122: 1, H0435: 1	9			

412	HCTCW39	847378	422	390 - 500	3019		1, H0518: 1, H0694: 1, H0555: 1, H0436: 1, L0747: 1, L0749: 1, L0779: 1, L0752: 1, L0755: 1, S0031: 1, L0485: 1, H0422: 1 and H0506: 1. L0766: 3, S0374: 2, H0543: 2, S0134: 1, H0125: 1, H0581: 1, H0030: 1, H0090: 1, H0591: 1, L0761: 1, L0639: 1, L0790: 1, H0518: 1, H0521: 1, H0436: 1, H0423: 1 and H0422: 1.	Xq21.1	300039, 305450, 309605
413	HCTCW39	847037	423	32 - 145	3020		L0766: 12, L0752: 9, L0803: 6, L0731: 6, L0639: 4, L0759: 4, L0635: 3, L0750: 3, L0758: 3, H0305: 2, H0252: 2, L0598: 2, L0369: 2, L0805: 2, L0665: 2, L0438: 2, H0539: 2, L0747: 2, L0591: 2, H0170: 1, H0657: 1, S0116: 1, S0418: 1, S0376: 1, H0675: 1, H0580: 1, S0045: 1, L0717: 1, H0411: 1, S0222: 1, H0497: 1, H0486: 1, H0274: 1, H0421: 1, H0085: 1, H0596: 1, L0471: 1, S0388: 1, S0051: 1, H0266: 1, H0687: 1, S0340: 1, S0003: 1, L0483: 1, L0055: 1, S0364: 1, L0455: 1, H0124: 1, H0090: 1, H0477: 1, H0268: 1, H0412: 1, H0560: 1, S0002: 1, H0529: 1, L0763: 1, L0371: 1, L0770: 1, L0761: 1, L0667: 1, L0772: 1, L0646: 1, L0764: 1, L0771: 1, L0794: 1, L0804: 1, L0776: 1, L0527: 1, L0657: 1, L0809: 1, L0664: 1, H0547: 1, H0659: 1, H0648: 1, H0672: 1, S0454: 1, H0478: 1, L0748: 1, L0439: 1, L0754: 1, L0780: 1, L0757: 1, H0445: 1, L0588: 1, L0589: 1, L0592: 1, L0599: 1.	5q31-q33	109690, 109690, 121050, 131400, 138040, 153455, 154500, 159000, 179095, 180071, 181460, 192974, 192974, 222600, 222600, 222600, 234000, 272750, 600807, 601411, 601596, 601692, 601692, 602089, 602121, 602460

414	HCFY49	637537	424	53 - 157	3021			1, H0665: 1, S0192: 1, S0242: 1, H0543: 1, H0423: 1 and H0422: 1. H0046: 9, H0529: 9, L0731: 8, L0662: 8, L0659: 6, L0742: 6, S0126: 5, S0328: 5, H0521: 5, L0740: 5, L0777: 5, H0543: 5, S0360: 4, S0003: 4, H0622: 4, S0466: 4, L0662: 4, L0766: 4, L0655: 4, H0696: 4, L0759: 4, S0442: 3, S0444: 3, H0590: 3, H0318: 3, S0474: 3, S0440: 3, L0776: 3, S0374: 3, S0152: 3, H0624: 2, H0657: 2, S0354: 2, S0358: 2, S0376: 2, H0587: 2, H0574: 2, H0635: 2, H0052: 2, H0263: 2, H0150: 2, H0375: 2, H0615: 2, H0553: 2, H0040: 2, H0634: 2, T0067: 2, S0422: 2, L0764: 2, L0631: 2, L0653: 2, L0783: 2, L0666: 2, L0665: 2, H0144: 2, L0438: 2, H0660: 2, S0380: 2, L0754: 2, L0745: 2, L0779: 2, L0752: 2, L0581: 2, L0601: 2, S0011: 2, S0026: 2, S0242: 2, H0422: 2, H0170: 1, L0615: 1, H0265: 1, H0686: 1, H0716: 1, S0218: 1, L0002: 1, H0650: 1, H0656: 1, S0282: 1, H0661: 1, H0662: 1, S0418: 1, S0408: 1, H0580: 1, S0046: 1, H0640: 1, H0549: 1, H0592: 1, H0586: 1, H0331: 1, H0486: 1, H0013: 1, H0156: 1, L0021: 1, H0003: 1, L0022: 1, H0575: 1, H0036: 1, H0251: 1, H0596: 1, L0040: 1, H0597: 1, H0123: 1, H0620: 1, H0350: 1, H0024: 1, H0014: 1, H0355: 1, H0266: 1, H0267: 1, H0188: 1, S0022:	1
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415	HCFTDD18	664012	425	191 - 295	3022	Pro-6 to Ala-11.	1, H0688: 1, H0039: 1, H0644: 1, H0628: 1, H0617: 1, H0169: 1, H0321: 1, H0598: 1, L0060: 1, H0551: 1, H0412: 1, H0623: 1, L0564: 1, S0015: 1, H0625: 1, L0561: 1, S0370: 1, S0438: 1, H0633: 1, S0472: 1, S0344: 1, L0598: 1, L0638: 1, L0637: 1, L0646: 1, L0771: 1, L0363: 1, L0774: 1, L0775: 1, L0805: 1, L0663: 1, L0664: 1, H0520: 1, H0547: 1, H0519: 1, S0122: 1, H0689: 1, H0659: 1, H0672: 1, S0378: 1, S0406: 1, H0576: 1, H0478: 1, H0626: 1, S0027: 1, L0756: 1, L0757: 1, S0031: 1, H0445: 1, H0707: 1, S0434: 1, L0599: 1, L0608: 1, L0595: 1, L0366: 1 and H0542: 1.		
416	HCFLB10	675140	426	52 - 72	3023		L0439: 3, L0779: 3, L0758: 3, L0438: 2, L0749: 2, L0731: 2, L0362: 2, H0624: 1, S0358: 1, L0717: 1, H0486: 1, L0771: 1, L0648: 1, L0653: 1, L0659: 1, L0747: 1, L0759: 1 and H0422: 1.		
417	HCFLC03	596809	427	621 - 671	3024		S0046: 1 and H0423: 1. L0439: 6, L0740: 5, S0010: 3, L0748: 3, H0333: 2, H0052: 2, H0050: 2, L0754: 2, L0756: 2, L0731: 2, H0170: 1, H0177: 1, H0002: 1, H0051: 1, H0266: 1, H0591: 1, S0112: 1, S0150: 1, H0144: 1, H0539: 1, S0044: 1, S0028: 1, L0744: 1, L0750: 1, L0599: 1, L0608: 1 and H0423: 1.	8p11.2	136350, 152760, 180100, 182900, 277700, 600617
418	HCFLJ52	1307037	428	121 - 1080	3025	Ala-28 to Trp-33, Ser-85 to Gly-98, Pro-117 to Arg-124.	AR089: 15, AR316: 11, AR060: 8 H0046: 8, S0354: 6, S0360:		

422	HCFLY20	786452	432	385 - 411	3029				2, H0673: 2, H0551: 2, L0769: 2, L0805: 2, L0663: 2, L0664: 2, L0779: 2, L0771: 2, L0758: 2, L0591: 2, H0265: 1, H0556: 1, S0046: 1, H0619: 1, L0717: 1, H0370: 1, H0497: 1, H0421: 1, H0545: 1, H0050: 1, H0373: 1, T0010: 1, S6028: 1, S0250: 1, H0090: 1, H0429: 1, H0494: 1, H0625: 1, S0440: 1, S0210: 1, L0761: 1, L0771: 1, L0662: 1, L0766: 1, L0655: 1, L0540: 1, L0547: 1, L0518: 1, L0809: 1, L0544: 1, L0529: 1, L0530: 1, L0788: 1, L0790: 1, S0330: 1, S0378: 1, L0757: 1, H0444: 1, L0480: 1, L0601: 1, S0192: 1, H0542: 1 and H0423: 1. AR089: 8, AR316: 6, AR060: 5 L0766: 6, H0616: 3, L0809: 3, L0789: 3, H0556: 2, S0144: 2, L0770: 2, L0761: 2, L0803: 2, L0757: 2, S0342: 1, S0116: 1, H0341: 1, S0338: 1, H0351: 1, S0278: 1, H0136: 1, H0004: 1, H0251: 1, H0014: 1, T0006: 1, H0424: 1, H0641: 1, L0374: 1, L0771: 1, L0794: 1, L0804: 1, L0774: 1, L0775: 1, L0376: 1, L0655: 1, L0783: 1, H0683: 1, H0518: 1, H0522: 1, S0044: 1, H0436: 1, L0742: 1, L0754: 1, L0749: 1, L0750: 1, L0780: 1, H0445: 1, H0543: 1, H0423: 1 and H0677: 1.
423	HCFLY20	858875	433	95 - 568	3030	Pro-47 to Pro-59, Gly-96 to Asp-101, Arg-114 to Trp-121, Pro-132 to Trp-138.			AR089: 8, AR316: 6, AR060: 5 L0766: 6, H0616: 3, L0809: 3, L0789: 3, H0556: 2, S0144:

424	HCFMA39	826004	434	217 - 345	3031	Ser-21 to Ser-28.	H0423: 1	2, L0770: 2, L0761: 2, L0803: 2, L0757: 2, S0342: 1, S0116: 1, H0341: 1, S0358: 1, H0351: 1, S0278: 1, H0156: 1, H0004: 1, H0251: 1, H0014: 1, T0006: 1, H0424: 1, H0641: 1, L0374: 1, L0771: 1, L0794: 1, L0804: 1, L0774: 1, L0775: 1, L0376: 1, L0655: 1, L0783: 1, H0683: 1, H0518: 1, H0522: 1, S0044: 1, H0436: 1, L0742: 1, L0754: 1, L0749: 1, L0750: 1, L0780: 1, H0445: 1, H0543: 1, H0423: 1 and H0677: 1.
425	HCFMJ40	604589	435	321 - 389	3032		AR183: 5, AR184: 5, AR182: 5, AR229: 5, AR227: 4, AR269: 4, AR313: 4, AR270: 4, AR238: 3, AR293: 3, AR175: 3, AR299: 3, AR290: 3, AR268: 3, AR177: 3, AR291: 3, AR251: 3, AR226: 3, AR289: 3, AR234: 3, AR096: 3, AR219: 3, AR295: 2, AR089: 2, AR233: 2, AR292: 2, AR294: 2, AR296: 2, AR258: 2, AR240: 2, AR237: 2, AR267: 2, AR033: 2, AR298: 2, AR266: 2, AR300: 2, AR285: 2, AR218: 2, AR231: 2, AR282: 2, AR280: 2, AR314: 2, AR315: 2, AR286: 2, AR256: 2, AR232: 2, AR316: 2, AR060: 2, AR185: 1, AR277: 1.	

426	HCFML07	580817	436	110 - 394	3033		AR275: 1, AR284: 1, AR263: 1, AR247: 1, AR179: 1, AR039: 1, AR281: 1, AR244: 1, AR259: 1 H0423: 1		
427	HCENMR75	894836	437	112 - 210	3034		H0412: 2, H0187: 2, L0777: 2, S0114: 1, H0306: 1, H0402: 1, S0354: 1, H0333: 1, H0052: 1, H0413: 1, L0770: 1, L0766: 1, H0627: 1, L0750: 1, L0779: 1, L0731: 1 and H0423: 1, L0766: 2, S0354: 1, S0376: 1, H0574: 1, H0486: 1, L0369: 1, L0637: 1, L0775: 1, L0666: 1, L0665: 1, S0374: 1, L0352: 1, S0330: 1, L0439: 1, L0779: 1, L0758: 1, H0423: 1, S0424: 1 and H0506: 1, H0423: 1	6q12-q13	203310
428	HCENMX16	581042	438	354 - 440	3035		S0001: 1, S0476: 1, H0264: 1, H0521: 1, H0423: 1 and H0422: 1		
429	HCENMX88	825989	439	191 - 340	3036				
430	HCENM40	746864	440	448 - 543	3037		L0758: 7, H0400: 5, L0731: 3, S0444: 2, L0794: 2, H0701: 2, H0583: 1, S0418: 1, S0358: 1, H0486: 1, H0354: 1, H0591: 1, L0803: 1, L0774: 1, L0805: 1, L0665: 1, L0438: 1, L0754: 1 and H0423: 1, H0306: 1 and H0423: 1, AR176: 4, AR282: 4, AR053: 4, AR183: 3, AR263: 3, AR250: 3, AR225: 3, AR272: 3, AR197: 3, AR291: 2, AR271: 2, AR311: 2, AR299: 2, AR182: 2, AR205: 2, AR275: 2,		
431	HCENM50	732010	441	335 - 412	3038				
432	HCENM16	740934	442	183 - 323	3039				

[illegible]

433	HCENNT5	762959	443	241 - 390	3040	H0656: 1, S0116: 1, H0671: 1, H0177: 1, H0638: 1, H0125: 1, S0356: 1, H0580: 1, S0046: 1, H0351: 1, H0333: 1, H0643: 1, H0632: 1, L0622: 1, H0486: 1, T0114: 1, H0427: 1, S0280: 1, H0036: 1, H0390: 1, H0318: 1, H0581: 1, H0421: 1, H0196: 1, H0309: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0012: 1, H0620: 1, H0199: 1, H0023: 1, H0014: 1, H0051: 1, H0510: 1, H0290: 1, H0328: 1, H0615: 1, H0688: 1, H0031: 1, H0553: 1, H0673: 1, H0212: 1, H0316: 1, H0090: 1, H0616: 1, H0063: 1, H0551: 1, H0059: 1, H0102: 1, H0560: 1, S0464: 1, L0065: 1, H0509: 1, H0633: 1, S0144: 1, S0210: 1, L0640: 1, L0638: 1, L0796: 1, L0645: 1, L0387: 1, L0649: 1, L0650: 1, L0774: 1, L0375: 1, L0805: 1, L0653: 1, L0379: 1, L0527: 1, L0512: 1, L0659: 1, L0517: 1, L0526: 1, L0666: 1, L0665: 1, S0052: 1, H0682: 1, H0684: 1, H0660: 1, H0666: 1, H0648: 1, H0672: 1, H0539: 1, H0518: 1, H0522: 1, H0134: 1, H0214: 1, H0555: 1, H0436: 1, L0744: 1, L0756: 1, L0753: 1, S0031: 1, H0445: 1, H0595: 1, L0597: 1, L0592: 1, H0136: 1, H0422: 1 and H0352: 1.
433	HCENNT5	762959	443	241 - 390	3040	AR089: 1 H0580: 1, H0431: 1, S0010: 1, H0379: 1, H0320: 1, H0547: 1, H0435: 1, L0602: 1, L0740: 1, H0423: 1 and S0456: 1.

434	HCFOG17	747700	444	27 - 131	3041		H0423: 1			
435	HCFOH93	668236	445	3 - 98	3042		H0423: 2, L0771: 1, L0768: 1, L0775: 1, L0809: 1, H0435: 1, L0779: 1 and H0422: 1.			
436	HCGBA15	604603	446	83 - 181	3043		H0458: 1			
437	HCHAC68	610370	447	201 - 851	3044	Ala-10 to Arg-18, Glu-45 to Glu-55, Val-82 to Trp-90.	AR183: 6, AR055: 5, AR244: 5, AR247: 5, AR204: 4, AR198: 4, AR089: 4, AR234: 4, AR309: 3, AR282: 3, AR229: 3, AR313: 3, AR251: 3, AR202: 3, AR231: 3, AR052: 3, AR248: 3, AR277: 3, AR053: 3, AR238: 3, AR267: 3, AR243: 3, AR269: 3, AR310: 2, AR206: 2, AR213: 2, AR270: 2, AR186: 2, AR237: 2, AR291: 2, AR179: 2, AR192: 2, AR295: 2, AR316: 2, AR184: 2, AR293: 2, AR182: 2, AR292: 2, AR096: 2, AR061: 2, AR253: 2, AR240: 2, AR299: 2, AR312: 2, AR268: 2, AR286: 2, AR294: 2, AR266: 2, AR290: 2, AR233: 2, AR226: 2, AR232: 1, AR219: 1, AR280: 1, AR060: 1, AR300: 1, AR033: 1, AR289: 1, AR185: 1, AR218: 1, AR177: 1, AR205: 1, AR283: 1, AR194: 1, AR227: 1, AR104: 1, AR281: 1, AR039: 1, L0665: 6, L0747: 5, L0743:			

438	HCHBP49	892141	448	234 - 344	3045	<p>3, S0420: 2, H0266: 2, H0494: 2, L0646: 2, L0662: 2, L0806: 2, L0659: 2, S0328: 2, L0748: 2, H0295: 1, H0294: 1, H0483: 1, S0132: 1, S0222: 1, H0370: 1, H0600: 1, H0586: 1, H0587: 1, L0021: 1, H0688: 1, H0039: 1, H0622: 1, H0551: 1, H0116: 1, L0763: 1, L0770: 1, L0764: 1, L0771: 1, L0773: 1, L0386: 1, L0803: 1, L0775: 1, L0653: 1, L0663: 1, H0684: 1, H0672: 1, S0330: 1, H0555: 1, L0744: 1, L0779: 1, L0731: 1, L0757: 1, L0605: 1 and H0543: 1.</p> <p>L0749: 5, S0126: 4, L0774: 3, L0659: 3, L0789: 3, L0750: 3, S0420: 2, H0630: 2, L0763: 2, L0764: 2, L0775: 2, S0404: 2, L0743: 2, L0748: 2, H0624: 1, H0295: 1, S0134: 1, S0282: 1, H0483: 1, H0254: 1, H0638: 1, S0442: 1, S0376: 1, S0444: 1, H0675: 1, H0580: 1, H0156: 1, S0049: 1, H0309: 1, H0009: 1, H0569: 1, H0012: 1, H0024: 1, H0271: 1, H0063: 1, H0625: 1, H0652: 1, H0529: 1, L0643: 1, L0645: 1, L0773: 1, L0650: 1, L0776: 1, L0663: 1, L0665: 1, S0374: 1, H0435: 1, H0659: 1, H0648: 1, L0439: 1, L0759: 1, L0591: 1 and H0506: 1.</p>		
439	HCHCA79	840333	449	267 - 446	3046	<p>L0769: 4, L0794: 3, L0751: 3, H0659: 2, H0483: 1, S0007: 1, H0018: 1, H0615: 1, L0763: 1, L0638: 1, L0800: 1, L0768: 1, L0522: 1, L0803: 1, L0805: 1, L0776: 1, L0790: 1, L0777: 1 and L0758: 1.</p>		

440	HCHC033	862534	450	576 - 743	3047	Glu-28 to Lys-34.	H0013: 2, H0036: 2, L0776: 2, H0483: 1, S0045: 1, L0162: 1, H0252: 1, H0048: 1, S0015: 1, S0382: 1, L0766: 1, H0144: 1, S0013: 1, L0740: 1, L0745: 1, L0777: 1, L0759: 1 and L0366: 1.		
441	HCHM157	833049	451	168 - 1211	3048	Lys-111 to Thr-117, Asn-193 to Trp-199, Ala-271 to Pro-282, Leu-303 to Ala-327.	AR281: 29, AR202: 24, AR205: 23, AR194: 22, AR039: 20, AR246: 19, AR315: 19, AR263: 18, AR206: 18, AR244: 18, AR243: 17, AR289: 17, AR266: 17, AR282: 17, AR283: 17, AR183: 17, AR280: 16, AR270: 16, AR271: 15, AR268: 15, AR241: 15, AR284: 15, AR198: 15, AR204: 13, AR314: 13, AR265: 13, AR277: 13, AR295: 13, AR285: 12, AR310: 12, AR192: 12, AR300: 12, AR269: 12, AR247: 12, AR213: 12, AR096: 12, AR238: 11, AR182: 11, AR291: 11, AR274: 11, AR232: 11, AR299: 11, AR286: 11, AR251: 11, AR227: 11, AR290: 11, AR312: 11, AR033: 10, AR184: 10, AR240: 10, AR313: 10, AR055: 10, AR089: 10, AR104: 10, AR177: 10, AR053: 10, AR309: 9, AR292: 9, AR316: 9, AR275: 9, AR296: 9, AR298: 9, AR234: 9, AR273: 9, AR294: 9, AR267: 9,		

442	HCHOC06	688042	452	341 - 427	3049		AR229: 8, AR218: 8, AR293: 8, AR173: 8, AR231: 7, AR236: 7, AR226: 7, AR219: 7, AR258: 7, AR061: 7, AR233: 6, AR060: 6, AR253: 6, AR237: 6, AR186: 6, AR259: 6, AR052: 6, AR185: 5, AR248: 5, AR179: 4, AR249: 4 H0484: 3, L0439: 3, S0354: 2, H0521: 2, H0265: 1, H0341: 1, S0356: 1, H0427: 1, H0052: 1, H0373: 1, H0553: 1, H0264: 1, H0494: 1, S0422: 1, L0666: 1, L0438: 1, S0270: 1, H0555: 1, H0576: 1, S0028: 1, L0743: 1, L0749: 1, L0777: 1, H0445: 1, S0436: 1 and H0543: 1.		
							AR089: 18, AR316: 14, AR060: 10 H0484: 1		
443	HCHOY52	837297	453	24 - 1253	3050	Ser-4 to Gly-10, Ala-13 to Gly-31, Gln-41 to Lys-68, Gln-73 to Asp-78.	L0766: 4, L0591: 4, H0657: 2, H0593: 2, L0739: 2, L0596: 2, H0656: 1, H0484: 1, S0418: 1, S0420: 1, S0356: 1, H0587: 1, H0544: 1, H0135: 1, L0667: 1, L0800: 1, L0771: 1, L0768: 1, L0794: 1, L0649: 1, L0803: 1, L0804: 1, L0805: 1, L0787: 1, L0532: 1, L0666: 1, H0658: 1, L0743: 1, L0749: 1, L0779: 1 and L0731: 1.		
444	HCHQB93	793648	454	1321 - 1321	3051	Gly-16 to His-22, Ser-51 to Gln-61.	L0748: 9, L0663: 4, H0486: 3, L0761: 3, L0663: 3, L0752: 3, S0116: 2, S0358: 2, L0662: 2, L0659: 2, L0809: 2, L0666: 2, L0731: 2, H0657: 1, H0484: 1, H0402: 1, S0420: 1, H0580:	6p21-p12	180297, 230450, 248611, 251000, 263200, 600211, 600701, 601690

445	HCHQB93	875853	455	1321 - 1521	3052	Glv-16 to Hls-22, Ssr-51 to Glu-61.	<p>1, H0485: 1, L0738: 1, H0046: 1, H0239: 1, S0022: 1, H0553: 1, H0038: 1, H0551: 1, H0494: 1, H0560: 1, H0509: 1, S0002: 1, L0638: 1, L0796: 1, L0667: 1, L0645: 1, L0771: 1, L0766: 1, L0803: 1, L0652: 1, L0657: 1, L0793: 1, H0144: 1, H0547: 1, H0519: 1, H0672: 1, H0539: 1, H0710: 1, H0521: 1, H0696: 1, H0478: 1, L0439: 1, L0747: 1, L0750: 1, L0756: 1, L0757: 1, H0595: 1, H0542: 1, H0422: 1 and L0462: 1.</p> <p>L0748: 9, L0663: 4, H0486: 3, L0761: 3, L0663: 3, L0752: 3, S0116: 2, S0358: 2, L0662: 2, L0659: 2, L0809: 2, L0666: 2, L0731: 2, H0657: 1, H0484: 1, H0402: 1, S0420: 1, H0580: 1, H0485: 1, L0738: 1, H0046: 1, H0239: 1, S0022: 1, H0553: 1, H0038: 1, H0551: 1, H0494: 1, H0560: 1, H0509: 1, S0002: 1, L0638: 1, L0796: 1, L0667: 1, L0645: 1, L0771: 1, L0766: 1, L0803: 1, L0652: 1, L0657: 1, L0793: 1, H0144: 1, H0547: 1, H0519: 1, H0672: 1, H0539: 1, H0710: 1, H0521: 1, H0696: 1, H0478: 1, L0439: 1, L0747: 1, L0750: 1, L0756: 1, L0757: 1, H0595: 1, H0542: 1, H0422: 1 and L0462: 1.</p>	6p21-pl2	180297, 230450, 248611, 251000, 263200, 600211, 600701, 601690
446	HCLBK61	845659	456	1050 - 1139	3053		<p>AR089: 46, AR316: 33, AR060: 21 L0740: 15, L0752: 11, L0731: 11, H0052: 9, L0769: 9, L0748: 9, L0753: 8, L0746: 7, L0747: 7, L0775: 6, L0751:</p>	19p13.1	143890, 151440, 600173, 600276, 600310, 600310, 601604, 601843

447	HCLCU75	862406	457	228 - 479	3054	Pro-1 to Lys-6.	1, L0606: 1, L0659: 1, L0528: 1, L0665: 1, S0374: 1, L0438: 1, H0670: 1, H0672: 1, S0330: 1, S0378: 1, S0152: 1, S0044: 1, S0027: 1, S0028: 1, S0032: 1, L0439: 1, L0749: 1, L0755: 1, H0445: 1, S0394: 1, L0608: 1, H0665: 1 and H0423: 1.
448	HCMSA37	598712	458	90 - 275	3055	Lys-25 to Gln-34.	H0196: 1
449	HCMSR07	821338	459	309 - 419	3056	Thr-23 to Ile-29.	AR089: 7, AR316: 6, AR060: 6
450	HCNAI74	750972	460	168 - 353	3057		L0717: 1 and H0196: 1.
451	HCNCT01	840357	461	241 - 264	3058		H0085: 1
452	HCNDR39	845243	462	2671 - 2706	3059		AR060: 3, AR316: 3, AR089: 2
							H0597: 1
							L0731: 10, H0013: 6, L0455: 12
							6, L0740: 5, S0212: 4, S0222: 4, S0010: 4, L0438: 4, H0599: 3, H0529: 3, L0439: 3, L0745: 3, L0747: 3, H0583: 2, H0156: 2, H0046: 2, T0010: 2, H0039: 2, H0553: 2, H0124: 2, H0090: 2, H0591: 2, H0616: 2, L0776: 2, L0666: 2, L0663: 2, H0144: 2, L0565: 2, S0126: 2, H0684: 2, H0521: 2, H0171: 1, S0045: 1, S0132: 1, H0619: 1, H0411: 1, H0369: 1, H0613: 1, H0586: 1, H0333: 1, H0643: 1, T0040: 1, S0346: 1, H0232: 1, H0597: 1, L0471: 1, H0014: 1, S0051: 1, H0355: 1, H0188: 1, H0687: 1, S0250: 1, S0003: 1, S0214: 1, H0328: 1, H0615: 1, H0428: 1, H0038: 1, H0351: 1, T0067: 1, H0269: 1, H0623: 1, L0351: 1, T0042: 1, H0560: 1, S0344: 1.

453	HCNSD91	834817	463	309 - 359	3060		1, S0210: 1, L0638: 1, L0637: 1, L0654: 1, L0809: 1, L0647: 1, L0658: 1, H0672: 1, H0522: 1, S0044: 1, H0655: 1, S3014: 1, S0028: 1, L0748: 1, L0749: 1, L0779: 1, L0777: 1, L0759: 1, S0031: 1, L0589: 1, L0599: 1, L0362: 1, S0242: 1, S0194: 1, S0276: 1, H0543: 1, H0423: 1, S0412: 1 and H0506: 1. L0748: 9, L0157: 8, L0777: 6, L0743: 3, L0779: 3, H0624: 2, H0305: 2, H0589: 2, H0416: 2, H0553: 2, L0638: 2, L0764: 2, L0783: 2, L0809: 2, L0439: 2, L0740: 2, L0747: 2, H0171: 1, S0402: 1, H0295: 1, S0116: 1, H0663: 1, S0360: 1, H0618: 1, S0010: 1, H0231: 1, H0544: 1, H0009: 1, H0012: 1, S0051: 1, S6028: 1, H0179: 1, H0628: 1, S0364: 1, H0272: 1, S0142: 1, L0369: 1, L0770: 1, L0769: 1, L0649: 1, L0776: 1, L0656: 1, L0663: 1, H0547: 1, S0136: 1, L0521: 1, L0751: 1, L0749: 1, L0750: 1, L0755: 1, S0276: 1 and S0460: 1.	15ql5		177070, 177070, 182500, 218000, 227220, 243500, 600839, 601800
454	HCNSF01	901060	464	1011 - 1154	3061		AR089: 28, AR316: 21, AR060: 15 S0132: 10, S0358: 9, S0408: 8, S0410: 8, S0002: 8, L0748: 7, H0494: 6, L0599: 6, S0142: 5, L0777: 5, S0476: 4, L0483: 4, L0775: 4, L0659: 4, H0521: 4, S0442: 3, S0278: 3, H0284: 3, H0039: 3, H0674: 3, H0591: 3, S0426: 3, L0771: 3, L0773: 3, S0374: 3, L0439: 3, H0556: 2, T0002: 2, H0584: 2, H0657: 2.			

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455	HCNSG06	600396	465	23 - 118	3062	H0231: 1 and H0169: 1.	
456	HCNSG32	825978	466	568 - 594	3063	H0231: 1, H0615: 1, L0745: 1 and L0485: 1.	

457	HCPAE41	799546	467	46 - 174	3064	<p>AR060: 29, AR316: 28, AR089: 27 L0748: 12, S0126: 10, L0731: 9, L0742: 7, L0770: 5, H0266: 4, L0747: 4, L0758: 4, S0360: 3, H0333: 3, L0471: 3, H0617: 3, H0038: 3, S0344: 3, L0774: 3, L0775: 3, L0752: 3, L0757: 3, L0470: 2, S0420: 2, H0599: 2, H0309: 2, L0163: 2, H0616: 2, T0041: 2, H0641: 2, L0769: 2, L0768: 2, L0766: 2, L0517: 2, H0144: 2, H0659: 2, H0670: 2, L0743: 2, L0750: 2, L0755: 2, L0588: 2, L0361: 2, H0624: 1, H0170: 1, H0265: 1, H0159: 1, H0295: 1, T0049: 1, S0134: 1, H0657: 1, S0116: 1, H0341: 1, H0662: 1, S0356: 1, H0340: 1, H0208: 1, S0045: 1, S0132: 1, H0393: 1, S0278: 1, S0222: 1, H0370: 1, L0622: 1, H0069: 1, H0427: 1, H0036: 1, S0010: 1, H0318: 1, H0581: 1, S0049: 1, H0196: 1, H0194: 1, H0263: 1, H0204: 1, H0597: 1, H0327: 1, H0544: 1, H0545: 1, H0009: 1, H0562: 1, H0023: 1, S0031: 1, H0083: 1, H0594: 1, S0628: 1, H0188: 1, H0687: 1, T0006: 1, H0031: 1, H0644: 1, H0181: 1, H0606: 1, H0032: 1, H0673: 1, H0169: 1, H0388: 1, H0124: 1, H0135: 1, H0163: 1, H0040: 1, H0634: 1, H0087: 1, H0551: 1, T0067: 1, H0477: 1, T0042: 1, H0366: 1, S0294: 1, H0509: 1, H0633: 1, L0772: 1, L0771: 1, L0522: 1, L0650: 1, L0375: 1, L0378: 1, L0806: 1,</p>	2p24.3-p24.1	602134
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438	HCQA36	561280	468	385 - 444	3065				L0776: 1, L0783: 1, L0809: 1, H0672: 1, S0380: 1, H0134: 1, H0576: 1, S014: 1, L0740: 1, L0779: 1, L0759: 1, L0599: 1, S0026: 1, H0136: 1, S0276: 1 and H0422: 1.			
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439	HCQAQ47	603530	469	113 - 232	3066				H0556: 15, H0083: 3, L0789: 3, L0747: 3, H0543: 3, H0265: 2, H0255: 2, S0046: 2, S0474: 2, S0466: 2, L0794: 2, L0519: 2, H0576: 2, L0777: 2, H0542: 2, S0278: 1, H0610: 1, H0370: 1, H0497: 1, H0559: 1, H0250: 1, S0280: 1, H0581: 1, H0421: 1, H0231: 1, H0263: 1, H0050: 1, H0063: 1, H0264: 1, T0041: 1, S0144: 1, S0142: 1, S0002: 1, L0764: 1, L0773: 1, L0803: 1, L0804: 1, L0775: 1, L0665: 1, H0518: 1, H0436: 1, L0731: 1, L0592: 1, H0136: 1 and H0422: 1.	18q22		174810, 601567, 602080
460	HCQA572	828082	470	140 - 1054	3067				Ala-9 to Gln-14, Ile-29 to Gln-35, Ser-86 to Thr-93, Gln-121 to Gln-134,			
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461	HCQBM95	841011	471	253 - 267	3068	Leu-137 to Phe-149, Gln-165 to Gln-177, Gln-186 to Leu-198, Gln-207 to Ala-223, Pro-228 to Leu-246, Thr-256 to Thr-284.	1, H0623: 1, H0280: 1, H0593: 1, H0521: 1 and H0555: 1.		
462	HCQCM95	800912	472	395 - 460	3069		H0263: 1 and S0002: 1. AR089: 10, AR316: 9, AR060: 8 L0740: 10, H0521: 8, L0659: 7, L0666: 7, L0731: 7, L0664: 6, L0754: 6, L0803: 5, L0752: 5, S0003: 4, L0770: 4, L0771: 4, L0438: 4, H0547: 4, S0380: 4, S0152: 4, H0522: 4, L0755: 4, H0171: 3, S0212: 3, S0358: 3, H0013: 3, H0545: 3, H0623: 3, S0344: 3, H0520: 3, S0126: 3, H0648: 3, H0539: 3, L0602: 3, L0744: 3, L0750: 3, L0758: 3, L0599: 3, S0026: 3, S0192: 3, S0242: 3, L0005: 2, S0360: 2, H0581: 2, H0510: 2, H0375: 2, L0483: 2, H0169: 2, H0090: 2, H0379: 2, H0556: 2, H0560: 2, L0662: 2, L0794: 2, L0766: 2, L0775: 2, H0660: 2, L0757: 2, H0667: 2, H0543: 2, H0422: 2, H0624: 1, H0265: 1, S0040: 1, S0134: 1, S0116: 1, S0418: 1, H0637: 1, H0580: 1, H0329: 1, H0208: 1, S0045: 1, H0370: 1, H0574: 1, T0040: 1, H0590: 1, S0010: 1, S0346: 1, S0474: 1, H0263: 1, H0596: 1, H0544: 1, H0546: 1, L0471: 1, T0003: 1, H0024: 1, S0050: 1, H0373: 1, S0388: 1, H0083: 1, S6028: 1, S0214: 1, H0615: 1, H0428: 1, H0622: 1, H0553: 1, L0142:		

463	HCQCM95	886938	473	481 - 546	3070		<p>1, H0032: 1, H0598: 1, S0036: 1, H0040: 1, H0616: 1, H0063: 1, H0551: 1, H0268: 1, H0269: 1, S0386: 1, T0041: 1, L0065: 1, S0150: 1, H0641: 1, H0529: 1, L0369: 1, L0763: 1, L0667: 1, L0800: 1, L0764: 1, L0648: 1, L0804: 1, L0651: 1, L0519: 1, L0788: 1, L0663: 1, L0665: 1, H0144: 1, H0593: 1, H0690: 1, H0659: 1, H0670: 1, S0330: 1, H0696: 1, H0694: 1, S0168: 1, H0134: 1, H0555: 1, H0436: 1, H0478: 1, S0027: 1, S0028: 1, L0439: 1, L0688: 1, L0583: 1, L0362: 1, L0366: 1, H0668: 1, S0196: 1, H0542: 1, H0423: 1, S0456: 1 and S0021: 1.</p>		
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464	HCQCV23	800888	474	516- 593	3071	<p>1, S0134: 1, S0116: 1, S0418: 1, H0637: 1, H0580: 1, H0329: 1, H0208: 1, S0045: 1, H0370: 1, H0574: 1, T0040: 1, H0590: 1, S0010: 1, S0346: 1, S0474: 1, H0263: 1, H0596: 1, H0544: 1, H0546: 1, L0471: 1, T0003: 1, H0024: 1, S0030: 1, H0373: 1, S0388: 1, H0083: 1, S6028: 1, S0214: 1, H0615: 1, H0428: 1, H0622: 1, H0553: 1, L0142: 1, H0032: 1, H0598: 1, S0036: 1, H0040: 1, H0616: 1, H0063: 1, H0551: 1, H0268: 1, H0269: 1, S0386: 1, T0041: 1, L0065: 1, S0150: 1, H0641: 1, H0529: 1, L0369: 1, L0763: 1, L0667: 1, L0800: 1, L0764: 1, L0648: 1, L0804: 1, L0631: 1, L0519: 1, L0788: 1, L0663: 1, L0665: 1, H0144: 1, H0593: 1, H0690: 1, H0659: 1, H0670: 1, S0330: 1, H0696: 1, H0694: 1, S0168: 1, H0134: 1, H0555: 1, H0436: 1, H0478: 1, S0027: 1, S0028: 1, L0439: 1, L0688: 1, L0583: 1, L0362: 1, L0366: 1, H0668: 1, S0196: 1, H0542: 1, H0423: 1, S0456: 1 and S0021: 1.</p> <p>AR060: 5, AR316: 5, AR089: 5</p> <p>L0756: 6, L0749: 5, S0404: 4, L0757: 4, H0617: 3, L0775: 3, L0666: 3, L0744: 3, L0777: 3, S0358: 2, H0620: 2, H0529: 2, L0764: 2, L0748: 2, L0439: 2, L0754: 2, H0443: 2, H0657: 1, S0116: 1, S0356: 1, S0222: 1, H0497: 1, S0010: 1, H0596: 1, H0012: 1, H0024: 1, H0428:</p>	
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465	HCQCV23	862285	475	516 - 593	3072		1, H0644: 1, L0142: 1, H0598: 1, H0163: 1, H0264: 1, H0488: 1, H0625: 1, L0763: 1, L0806: 1, L0776: 1, L0379: 1, L0789: 1, L0663: 1, L0664: 1, L0665: 1, L0663: 1, L0438: 1, H0648: 1, S0374: 1, H0555: 1, H0627: 1, L0740: 1, L0750: 1, L0485: 1 and H0543: 1.	
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466	HCQDD32	832140	476	72 - 191	3073		AR089: 15, AR316: 14, AR060: 12 L0776: 2, L0759: 2, H0556: 1, S0360: 1, H0596: 1, H0617: 1, L0769: 1, L0768: 1, L0774: 1, L0809: 1, L0742: 1, L0757: 1 and H0422: 1.	
467	HCQDD61	845771	477	292 - 321	3074		H0637: 1 and H0596: 1.	
468	HCQDT67	834331	478	142 - 276	3075	Gly-27 to Asn-33.	AR060: 7, AR316: 5, AR089: 3 L0439: 5, H0592: 2, H0039: 1	

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469	HCRAL29	844084	479	175 - 294	3076				H0327: 1				
470	HCRB179	679646	480	199 - 339	3077				L0766: 2, L0803: 2, L0749: 2, H0263: 1, H0327: 1, H0090: 1, L0639: 1, L0387: 1, L0659: 1, L0791: 1, H0689: 1, H0670: 1, H0648: 1, S0330: 1, L0779: 1 and L0752: 1.				
471	HCRBL20	709660	481	394 - 681	3078	Ala-46 to Arg-62, Leu-68 to Thr-94.			AR231: 11, AR089: 9, AR232: 8, AR310: 7, AR269: 7, AR244: 7, AR270: 7, AR060: 7, AR316: 7, AR265: 6, AR253: 6, AR061: 6, AR052: 6, AR033: 6, AR268: 6, AR312: 5, AR309: 5, AR182: 5, AR267: 5, AR186: 5, AR183: 4, AR290: 4, AR184: 4, AR238: 4, AR202: 4, AR237: 4, AR053: 4, AR263: 4, AR299: 4, AR175: 4, AR177: 4, AR291: 4, AR282: 4, AR289: 3, AR096: 3, AR248: 3, AR275: 3, AR284: 3, AR243: 3, AR296: 3, AR295: 3, AR213: 3, AR249: 3, AR266: 3, AR055: 3, AR240: 3.	3p13-q13.2	156845, 156845, 156845, 164500, 600151		

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472	HCRBX84	1007105	482	87 - 668	3079	Arg-7 to Pro-13, Ser-28 to Pro-38, Arg-50 to Phe-56,	AR089: 16, AR316: 14, AR060: 11 H0051: 11, S0010: 10,

			Glu-76 to Pro-81, Cys-115 to Val-127, Thr-140 to Asp-171, Ala-175 to Gly-187.		S0036: 8, H0327: 7, H0052: 6, L0769: 6, L0751: 6, L0770: 5, L0766: 5, S0222: 4, S0346: 4, S0049: 4, S0051: 4, L0764: 4, L0771: 4, L0741: 4, L0779: 4, L0759: 4, S0031: 4, S0358: 3, H0441: 3, H0599: 3, H0373: 3, H0100: 3, L0766: 3, L0532: 3, L0742: 3, L0756: 3, L0752: 3, L0731: 3, S0442: 2, H0046: 2, H0050: 2, S0388: 2, H0083: 2, H0059: 2, S0038: 2, L0772: 2, L0768: 2, L0783: 2, L4501: 2, L0438: 2, S0028: 2, L0439: 2, L0745: 2, L0750: 2, L0758: 2, S0110: 1, S0282: 1, S0035: 1, S0420: 1, S0356: 1, S0444: 1, S0360: 1, S0300: 1, L0717: 1, H0351: 1, H0549: 1, H0586: 1, L0623: 1, H0318: 1, H0173: 1, H0196: 1, H0194: 1, H0597: 1, H0545: 1, H0178: 1, L0157: 1, H0565: 1, S6028: 1, H0266: 1, H0687: 1, H0615: 1, H0622: 1, H0553: 1, H0316: 1, H0494: 1, L0646: 1, L0374: 1, L0773: 1, L0662: 1, L0774: 1, L0775: 1, L0784: 1, L0806: 1, L0655: 1, L0807: 1, L0792: 1, L0666: 1, L0663: 1, S0053: 1, H0710: 1, S0406: 1, H0555: 1, H0436: 1, L0743: 1, L0747: 1, L0755: 1, L0757: 1, S0260: 1, L0592: 1, S0011: 1 and H0506: 1.	
473	HCRMA24	722210 897005	2601 483	41 - 139 86 - 154	5198 3080	Arg-7 to Pro-13. S0356: 1, L0803: 1 and S0126: 1.
474	HCRMRS5	849071	484	2164 - 2340	3081	AR089: 14, AR316: 11, AR060: 8 H0271: 13, H0556: 6, H0436:

475	HCRMR35	874743	485	2164 - 2340	3082				4, L0755: 4, S0356: 3, H0575: 3, H0416: 3, H0265: 2, H0713: 2, H0411: 2, H0635: 2, L0021: 2, H0179: 2, L0766: 2, L0659: 2, L0666: 2, H0547: 2, L0748: 2, L0749: 2, L0596: 2, L0588: 2, H0717: 1, H0650: 1, H0656: 1, H0483: 1, S0418: 1, S0420: 1, S0444: 1, H0637: 1, S0046: 1, L0717: 1, S6022: 1, S0220: 1, H0485: 1, H0069: 1, H0618: 1, H0581: 1, H0544: 1, H0546: 1, H0620: 1, H0023: 1, H0510: 1, H0213: 1, H0628: 1, H0032: 1, H0634: 1, H0264: 1, H0280: 1, H0429: 1, H0641: 1, H0538: 1, L0640: 1, L0761: 1, L0643: 1, L0768: 1, L0653: 1, L0519: 1, L0545: 1, L0789: 1, L0792: 1, L4501: 1, L0665: 1, S0053: 1, L0352: 1, H0593: 1, H0670: 1, H0648: 1, H0521: 1, H0478: 1, L0743: 1, L0439: 1, L0747: 1, L0779: 1, L0780: 1, L0757: 1, L0758: 1, S0434: 1, S0436: 1, L0603: 1, H0543: 1 and H0423: 1.	3p22	116806, 168468, 182280, 190182, 190182, 227646, 261510, 600163, 601154
									AR089: 14, AR316: 11, AR060: 8 H0271: 13, H0556: 6, H0436: 4, L0755: 4, S0356: 3, H0575: 3, H0416: 3, H0265: 2, H0713: 2, H0411: 2, H0635: 2, L0021: 2, H0179: 2, L0766: 2, L0659: 2, L0666: 2, H0547: 2, L0748: 2, L0749: 2, L0596: 2, L0588: 2, H0717: 1, H0650: 1, H0656: 1, H0483: 1, S0418: 1, S0420: 1, S0444: 1, H0637: 1, S0046: 1, L0717: 1, S6022: 1, S0220:		

476	HCRM35	897434	486	2164 - 2240	3083					1, H0485: 1, H0069: 1, H0618: 1, H0581: 1, H0544: 1, H0546: 1, H0620: 1, H0023: 1, H0510: 1, H0213: 1, H0628: 1, H0032: 1, H0634: 1, H0264: 1, H0280: 1, H0429: 1, H0641: 1, H0538: 1, L0640: 1, L0761: 1, L0643: 1, L0768: 1, L0653: 1, L0519: 1, L0545: 1, L0789: 1, L0792: 1, L4501: 1, L0665: 1, S0053: 1, L0352: 1, H0593: 1, H0670: 1, H0648: 1, H0521: 1, H0478: 1, L0743: 1, L0439: 1, L0747: 1, L0779: 1, L0780: 1, L0757: 1, L0758: 1, S0434: 1, S0436: 1, L0603: 1, H0543: 1 and H0423: 1	3p22	116806, 168468, 182280, 190182, 190182, 227646, 261510, 600163, 601154
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477	HCROC18	884144	487	367 - 1698	3084	Pro-18 to Glu-34, Ala-56 to Ser-61, Asn-74 to Pro-85, Arg-99 to Tyr-105, Asn-112 to Glu-120, Cys-144 to Asp-150, Ala-182 to Phe-187, Arg-228 to Thr-238, Ile-275 to Lys-283, Asp-300 to Ser-306, Arg-335 to Leu-346, Tyr-355 to Glu-361, Pro-369 to Tyr-375, Met-389 to Leu-396, Pro-419 to Asn-431.	1, L0352: 1, H0593: 1, H0670: 1, H0648: 1, H0521: 1, H0478: 1, L0743: 1, L0439: 1, L0747: 1, L0779: 1, L0780: 1, L0757: 1, L0758: 1, S0434: 1, S0436: 1, L0603: 1, H0543: 1 and H0423: 1.	16	
478	HCUAE53	665716	488	309 - 404	3085		AR089: 10, AR316: 9, AR060: 7, S0356: 6, H0253: 4, H0494: 4, H0547: 4, S0436: 4, S0408: 3, H0622: 3, L0794: 3, H0593: 3, L0751: 3, H0170: 2, S0007: 2, H0618: 2, H0039: 2, H0617: 2, H0100: 2, S0002: 2, L0659: 2, S0216: 2, H0670: 2, L0744: 2, H0445: 2, H0583: 1, H0656: 1, H0483: 1, H0662: 1, H0638: 1, S0420: 1, S0442: 1, S0358: 1, S0360: 1, H0489: 1, S0046: 1, H0550: 1, H0574: 1, H0635: 1, H0599: 1, L0022: 1, H0575: 1, S0049: 1, H0052: 1, H0085: 1, H0596: 1, H0597: 1, H0327: 1, H0544: 1, H0046: 1, H0012: 1, H0024: 1, H0252: 1, T0006: 1, H0213: 1, H0606: 1, H0135: 1, H0087: 1, H0058: 1, H0560: 1, H0131: 1, H0646: 1, S0210: 1, L0763: 1, L0761: 1, L0773: 1, L0508: 1, L0636: 1, L0543: 1, L5622: 1, L0666: 1, L0664: 1, H0144: 1, H0660: 1, H0672: 1, H0651: 1, H0539: 1, H0521: 1, S0044: 1, S0406: 1, H0478: 1, L0743: 1, L0748: 1, L0747: 1, L0779: 1, S0434: 1, L0591: 1, L0601: 1, S0192: 1 and H0542: 1.	H0506: 1	

479	HCUA046	610056	489	169 - 261	3086	Gln-26 to Lys-31.	H0306: 1 and L0766: 1.		
480	HCUAT74	834611	490	405 - 503	3087	Gln-11 to Gln-22.	AR040: 4, AR316: 4, AR089: 3 L0761: 7, L0747: 6, S0045: 4, L0766: 4, L0755: 4, L0770: 3, S0126: 3, L0731: 3, H0657: 2, H0730: 2, L0623: 2, H0546: 2, H0150: 2, H0012: 2, H0620: 2, H0529: 2, H0739: 1, S6024: 1, T0049: 1, H0381: 1, H0663: 1, H0306: 1, H0549: 1, S0222: 1, H0586: 1, H0333: 1, H0486: 1, H0599: 1, T0048: 1, H0597: 1, H0544: 1, H0545: 1, H0567: 1, H0571: 1, H0083: 1, H0428: 1, T0006: 1, L0142: 1, H0617: 1, L0055: 1, S0036: 1, H0087: 1, H0412: 1, T0041: 1, S0438: 1, L0763: 1, L3565: 1, L0372: 1, L0803: 1, L0806: 1, L0805: 1, L0776: 1, L0783: 1, L0383: 1, S0296: 1, S0380: 1, H0710: 1, H0528: 1, S0406: 1, H0576: 1, H0631: 1, L0611: 1, S0027: 1, L0757: 1, L0758: 1, L0588: 1, H0423: 1 and H0506: 1.		
481	HCUBA28	846300	491	65 - 217	3088	Met-1 to Pro-6, Pro-37 to Lys-51.	L0751: 19, L0748: 13, L0754: 8, L0758: 8, L0605: 8, L0755: 7, H0253: 6, S0406: 6, L0744: 6, L0745: 6, L0757: 6, S0476: 5, L0740: 5, L0747: 5, L0750: 5, L0731: 5, L0596: 5, H0423: 5, S0442: 4, S0046: 4, H0156: 4, H0581: 4, H0014: 4, H0617: 4, L0752: 4, L0753: 4, S0007: 3, L0717: 3, S0278: 3, H0632: 3, H0618: 3, H0046: 3, H0551: 3, S0440: 3, H0509: 3, L0761: 3, L0766: 3, L0659: 3, H0144: 3, H0435: 3, S0380: 3.	7	

482	HCUBC45	722211	492	98 - 211	3089					L0773: 1, L0648: 1, L0386: 1, L0776: 1, L0655: 1, L0783: 1, L0543: 1, L0790: 1, L0666: 1, L0664: 1, S0374: 1, S0126: 1, H0682: 1, H0648: 1, S0328: 1, H0539: 1, H0696: 1, H0704: 1, H0576: 1, S0027: 1, L0749: 1, L0779: 1, H0444: 1, L0588: 1, L0361: 1, L0601: 1, L0366: 1, H0653: 1, S0242: 1, H0543: 1, S0424: 1 and S0446: 1. L0744: 9, L0731: 8, L0439: 7, H0144: 5, L0749: 5, L0748: 4, L0758: 4, H0013: 3, H0038: 3, S0344: 3, L0769: 3, L0773: 3, L0755: 3, S0040: 2, H0306: 2, S0356: 2, S0358: 2, H0550: 2, H0392: 2, S0280: 2, H0620: 2, T0003: 2, H0598: 2, S0036: 2, H0623: 2, S0038: 2, S0002: 2, L0662: 2, L0768: 2, L0561: 2, L0775: 2, L0776: 2, L0527: 2, L0783: 2, L0438: 2, S0126: 2, H0539: 2, S0152: 2, H0521: 2, S014: 2, L0754: 2, L0747: 2, L0786: 2, L0752: 2, L0757: 2, L0591: 2, L0608: 2, L0362: 2, L0361: 2, L0601: 2, L0603: 2, H0170: 1, H0265: 1, H0556: 1, T0002: 1, S0114: 1, L0427: 1, S0116: 1, S0282: 1, H0402: 1, S0420: 1, S0354: 1, S0376: 1, S0360: 1, H0208: 1, S0045: 1, S0132: 1, S0476: 1, S0278: 1, H0549: 1, S0222: 1, S6014: 1, H0497: 1, H0333: 1, H0069: 1, L0021: 1, H0618: 1, S0010: 1, H0421: 1, H0251: 1, H0085: 1, H0327: 1, H0150: 1, H0178: 1, H0050: 1, H0024: 1, H0051: 1
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483	HCUBM41	826705	493	27 - 206	3090	Ile-25 to Thr-37.	H0306: 1 and H0402: 1.
484	HCUBN69	826610	494	152 - 271	3091		L0002: 1, H0306: 1 and H0402: 1.
485	HCUBY47	842787	495	337 - 699	3092	Pro-26 to Asn-34, Asp-45 to Arg-64, Pro-93 to Pro-108.	H0306: 1, H0486: 1 and H0539: 1.
486	HCUCV66	806577	496	744 - 881	3093	Ser-21 to His-29.	AR089: 2, AK316: 2, AR060: 2 L0750: 6, L0809: 5, L0757: 4, L0759: 4, L0770: 3, L0764: 3, L0740: 3, L0731: 3, H0170: 2, H0271: 2, H0494: 2, L0769: 2, L0794: 2, L0766: 2, L0663: 2, L0665: 2, H0144: 2, L0749: 2, L0777: 2, L0591: 2, H0542: 2, H0677: 2, H0717: 1, H0484:

487	HCUDJ41	610062	497	229 - 291	3094			1, H0483: 1, H0306: 1, H0125: 1, S0418: 1, H0393: 1, H0411: 1, H0549: 1, H0614: 1, T0109: 1, H0013: 1, H0309: 1, H0545: 1, H0046: 1, H0024: 1, H0617: 1, L0456: 1, S0366: 1, H0412: 1, H0413: 1, H0100: 1, T0042: 1, S0438: 1, L0761: 1, L0172: 1, L0651: 1, H0547: 1, H0593: 1, S0328: 1, S0380: 1, S3014: 1, S0027: 1, S0206: 1, L0748: 1, L0755: 1, L0758: 1, H0445: 1 and S0446: 1.
488	HCUEC55	534214	498	227 - 358	3095	Glu-37 to Ser-44.		H0402: 1 and H0436: 1.
489	HCUEG85	610072	499	200 - 307	3096			H0402: 1
490	HCUES35	694950	500	25 - 126	3097	Asn-25 to Trp-32.		AR213: 6, AR250: 6, AR169: 6, AR212: 5, AR224: 5, AR313: 4, AR266: 4, AR221: 4, AR178: 4, AR089: 4, AR053: 4, AR183: 4, AR165: 4, AR162: 4, AR161: 4, AR222: 4, AR166: 4, AR164: 4, AR163: 4, AR173: 4, AR175: 4, AR300: 4, AR096: 3, AR170: 3, AR196: 3, AR269: 3, AR311: 3, AR263: 3, AR312: 3, AR308: 3, AR270: 3, AR290: 3, AR268: 3, AR188: 3, AR247: 3, AR225: 3, AR191: 3, AR190: 3, AR174: 3, AR285: 3, AR291: 3, AR216: 3, AR171: 3, AR287: 3, AR179: 3, AR297: 3, AR189: 3, AR033: 3.

491	HCURC77	745374	501	65 - 184	3098	<p>AR180: 3, AR293: 3, AR245: 2, AR219: 2, AR257: 2, AR288: 2, AR182: 2, AR289: 2, AR238: 2, AR236: 2, AR254: 2, AR218: 2, AR274: 2, AR316: 2, AR286: 2, AR299: 2, AR200: 2, AR240: 2, AR262: 2, AR255: 2, AR172: 2, AR295: 2, AR214: 2, AR197: 2, AR203: 2, AR229: 2, AR267: 2, AR104: 2, AR210: 2, AR294: 2, AR275: 2, AR198: 2, AR195: 2, AR264: 2, AR199: 2, AR309: 2, AR181: 2, AR258: 2, AR282: 2, AR236: 2, AR233: 2, AR231: 2, AR234: 2, AR226: 2, AR272: 2, AR185: 2, AR239: 2, AR261: 1, AR060: 1, AR223: 1, AR296: 1, AR177: 1, AR237: 1, AR193: 1, AR228: 1, AR283: 1, AR232: 1, AR260: 1, AR061: 1, AR211: 1, H0402: 5, H0556: 1, H0306: 1, H0274: 1, H0318: 1, H0310: 1, H0396: 1, L0387: 1, L0804: 1 and H0445: 1, L0439: 17, L0731: 17, L0747: 16, L0766: 13, S0360: 8, L0770: 8, L0754: 8, L0659: 7, L0663: 7, L0749: 7, L0758: 7, H0486: 6, L0662: 5, L0748: 5, S0192: 5, L0105: 4, H0553:</p>
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492	HCUFD17	847039	502	230 - 319	3099	Asp-20 to Ser-29.	<p>1, L0809: 1, L0528: 1, L0788: 1, L0789: 1, L0565: 1, H0519: 1, H0682: 1, H0658: 1, H0648: 1, S0328: 1, H0639: 1, H0521: 1, H0696: 1, S0406: 1, H0555: 1, L0740: 1, L0757: 1, H0665: 1, S0196: 1, H0423: 1, H0422: 1 and S0460: 1.</p> <p>AR089: 18, AR316: 14, AR060: 11</p> <p>H0556: 10, H0013: 8, L0766: 7, H0265: 3, L0748: 5, S0022: 4, L0794: 4, H0542: 4, H0318: 3, H0024: 3, H0616: 3, T0041: 3, H0144: 3, L0596: 3, S0040: 2, H0402: 2, S0476: 2, H0587: 2, H0156: 2, S0010: 2, H0544: 2, H0123: 2, H0050: 2, H0615: 2, H0644: 2, H0135: 2, H0591: 2, H0038: 2, H0634: 2, H0494: 2, S0150: 2, L0805: 2, L0657: 2, L0666: 2, S0380: 2, H0521: 2, L0740: 2, L0749: 2, L0752: 2, L0731: 2, L0588: 2, L0605: 2, L0591: 2, L0599: 2, H0543: 2, S0604: 1, S0134: 1, H0637: 1, S0116: 1, S0420: 1, S0356: 1, H0580: 1, S0046: 1, H0437: 1, H0261: 1, H0549: 1, H0574: 1, L0623: 1, T0114: 1, S0280: 1, H0599: 1, H0575: 1, H0590: 1, H0120: 1, S0346: 1, H0705: 1, H0421: 1, H0052: 1, H0566: 1, H0083: 1, H0266: 1, H0271: 1, H0687: 1, H0292: 1, H0284: 1, L0483: 1, H0031: 1, H0553: 1, H0674: 1, S0366: 1, S0036: 1, H0264: 1, H0100: 1, H0625: 1, H0641: 1, S0144: 1, S0426: 1, L0763: 1, L0761: 1, L0764: 1</p>	3p21.2-p21.3	116806, 120120, 120150, 120120, 120436, 120436, 120436, 138320, 120436, 138320, 168468, 182280, 238310, 600163, 601226
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493	HCUF046	757481	503	101 - 202	3100			1, L0773: 1, L0662: 1, L0768: 1, L0381: 1, L0803: 1, L0375: 1, L0806: 1, L0629: 1, L0664: 1, L0438: 1, H0547: 1, H0593: 1, S0126: 1, H0539: 1, S0152: 1, H0134: 1, H0214: 1, S0406: 1, H0576: 1, L0779: 1, L0777: 1, L0755: 1, L0758: 1, H0595: 1, L0592: 1, S0192: 1, H0423: 1 and H0422: 1.		
494	HCUF033	637568	504	90 - 236	3101			H0402: 1		
495	HCUF009	821323	505	352 - 501	3102			AR089: 4, AR316: 4, AR060: 3 L0439: 58, L0438: 21, H0556: 7, H0052: 7, L0771: 6, L0743: 6, L0776: 5, S0222: 4, H0438: 4, L0351: 4, L0779: 4, S0418: 3, S0278: 3, L0770: 3, L0761: 3, L0366: 3, H0265: 2, S0040: 2, L0415: 2, S0045: 2, H0619: 2, H0643: 2, H0492: 2, H0486: 2, H0581: 2, H0620: 2, T0010: 2, H0266: 2, H0604: 2, H0031: 2, H0100: 2, L0662: 2, L0768: 2, L0665: 2, H0144: 2, L0352: 2, H0672: 2, H0521: 2, L0746: 2, L0756: 2, L0777: 2, L0731: 2, H0624: 1, T0002: 1, H0140: 1, H0583: 1, H0255: 1, H0402: 1, H0305: 1, H0458: 1, S0420: 1, S0354: 1, S0358: 1, H0645: 1, S6026: 1, S6022: 1, H0392: 1, H0559: 1, H0013: 1, H0069: 1, H0156: 1, H0590: 1, S0346: 1, H0085: 1, H0544: 1, H0545: 1, H0439: 1, H0150: 1, H0041: 1, H0563: 1, L0471: 1, S0388: 1, S0051: 1, H0271: 1, H0416: 1, H0188: 1, H0288: 1.	20q13.31- 20q13.33	261680

496	HCUFQ58	767432	506	295 - 399	3103				S0022: 1, L0483: 1, T0006: 1, H0213: 1, H0628: 1, H0617: 1, L0055: 1, H0135: 1, H0087: 1, H0551: 1, H0477: 1, H0059: 1, S0038: 1, L0435: 1, T0042: 1, H0494: 1, S0344: 1, S0426: 1, L0505: 1, L0640: 1, L0769: 1, L0638: 1, L0642: 1, L0764: 1, L0773: 1, L0794: 1, L0803: 1, L0774: 1, L0375: 1, L0378: 1, L0806: 1, L0805: 1, L0655: 1, L0493: 1, L0659: 1, L0783: 1, L0809: 1, L0789: 1, H0519: 1, S0126: 1, H0690: 1, H0682: 1, S0330: 1, H0539: 1, H0522: 1, S0037: 1, L0751: 1, L0754: 1, L0747: 1, L0749: 1, L0786: 1, H0445: 1, L0596: 1, H0542: 1 and H0543: 1.	
497	HCUFQ58	861871	507	293 - 397	3104				H0305: 3, L0659: 2, H0306: 1, H0402: 1, H0575: 1, H0050: 1, L0483: 1, H0561: 1, S0426: 1, L0648: 1, L0653: 1, L0754: 1, L0731: 1, L0584: 1 and L0601: 1.	
498	HCUFQ58	612843	508	280 - 345	3105				H0305: 3, L0659: 2, H0306: 1, H0402: 1, H0575: 1, H0050: 1, L0483: 1, H0561: 1, S0426: 1, L0648: 1, L0653: 1, L0754: 1, L0731: 1, L0584: 1 and L0601: 1.	
499	HCUGB76	651312	509	263 - 373	3106		Trp-13 to Leu-18.	19q13.4	H0402: 1 L0764: 2, H0306: 1, H0402: 1, H0428: 1, H0087: 1 and L0361: 1.	134790, 19 044, 600040, 600138
500	HCUGK79	612779	510	80 - 94	3107				H0402: 1 and S0424: 1.	
501	HCUGQ19	637569	511	359 - 448	3108		Cys-12 to Arg-20.		H0402: 2	
502	HCUGR26	799515	512	27 - 176	3109		Lys-23 to Gln-29.		H0402: 1	
503	HCUGR86	839653	513	831 - 941	3110		Gln-20 to Pro-29.		AR089: 3, AR316: 2.	

504	HCUHE27	562766	514	213 - 245	3111		AR060: 2 H0402: 1		
							AR089: 12, AR316: 7, AR060: 4		
505	HCUHL82	610044	515	50 - 145	3112		H0402: 1 and L0749: 1, S0026: 2, H0402: 1, S0045: 1, H0616: 1 and L0375: 1.		
506	HCUHM71	825975	516	80 - 334	3113		H0402: 1, H052: 1, H0696: 1 and L0748: 1.		
507	HCWAK88	839083	517	115 - 255	3114		H0305: 2		
508	HCWAL10	639023	518	362 - 394	3115		H0305: 5, L0534: 2, S0216: 2, H0589: 1, L0562: 1, L0539: 1, S0045: 1, H0318: 1, S0052: 1, L0602: 1 and L0777: 1.	7q11.23	116860, 129900, 233700, 600079
509	HCWAT71	801985	519	142 - 249	3116		H0305: 1 and H0589: 1.		
510	HCWBQ52	732039	520	284 - 370	3117		H0305: 1		
511	HCWCH16	847041	521	166 - 189	3118		AR241: 4, AR246: 3, AR182: 3, AR309: 3, AR270: 3, AR310: 3, AR269: 3, AR249: 3, AR312: 2, AR175: 2, AR296: 2, AR313: 2, AR229: 2, AR183: 2, AR293: 2, AR184: 2, AR282: 2, AR263: 2, AR060: 2, AR299: 2, AR226: 2, AR273: 2, AR238: 2, AR089: 2, AR247: 2, AR266: 2, AR186: 2, AR300: 2, AR294: 1, AR233: 1, AR286: 1, AR291: 1, AR185: 1, AR267: 1, AR316: 1, AR205: 1, AR292: 1, AR231: 1, AR055: 1, AR052: 1 H0305: 1		
512	HCWDM69	684527	522	328 - 342	3119		AR089: 11, AR316: 7, AR060: 4		

							H0305: 3, H0510: 1 and L0766: 1.		
513	HCWEB38	899446	523	223 - 405	3120	Arg-19 to Gly-26.	H0305: 5		
514	HCWEB72	639041	524	86 - 169	3121		AR089: 10, AK316: 7, AR060: 3		
							H0305: 9		
515	HCWEF04	899865	525	25 - 381	3122	Lys-107 to Lys-119.	AR089: 5, AK316: 4, AR060: 3	1q21-q25	104770, 107300, 107670, 110700, 131210, 135940, 136132, 145001, 146790, 150292, 152445, 152445, 159001, 173610, 174000, 179755, 182860, 182860, 182860, 191315, 208250, 230800, 230800, 233710, 266200, 600897, 600995, 601105, 601412, 601518, 601652, 602491
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516	HCWE182	799516	526	135 - 155	3123				1, L0386: 1, L0375: 1, L0376: 1, L0657: 1, L0782: 1, L0783: 1, L0382: 1, L0809: 1, L0545: 1, L0665: 1, S0216: 1, L0565: 1, S0310: 1, H0547: 1, H0539: 1, H0522: 1, S0044: 1, S0028: 1, L0740: 1, L0747: 1, L0777: 1, L0755: 1, H0444: 1, H0422: 1, H0677: 1, S0456: 1 and S0446: 1.		
517	HCWEW96	812735	527	1156 - 1266	3124	Sec-3 to Thr-11.			AR224: 3, AR252: 3, AR217: 3, AR197: 2, AR263: 2, AR309: 2, AR243: 2, AR104: 2, AR266: 1, AR181: 1, AR089: 1, AR275: 1, AR285: 1, AR257: 1, L0754: 45, L0747: 8, H0553: 7, L0755: 5, L0659: 4, H0124: 3, L0748: 3, H0265: 2, H0556: 2, H0305: 2, S0408: 2, H0586: 2, H0427: 2, H0599: 2, H0575: 2, H0050: 2, L0471: 2, H0616: 2, H0056: 2, L0764: 2, L0662: 2, L0794: 2, L0751: 2, L0749: 2, L0750: 2, H0713: 1, H0717: 1, H0300: 1, S0358: 1, S0045: 1, S0046: 1, H0619: 1, H0441: 1, H0485: 1, S0280: 1, H0042: 1, S0474: 1, H0046: 1, H0569: 1, H0024: 1, H0051: 1, H0328: 1, H0030: 1, H0644: 1, H0361: 1, H0040: 1, H0413: 1, S0038: 1, L0770: 1, L0769: 1, L0800: 1, L0644: 1, L0363: 1, L0803: 1, L0804: 1, L0775: 1, L0806: 1, L0805: 1, L0783: 1, L0666: 1, L0665: 1, H0144: 1, H0519: 1, S0146: 1, H0555: 1, S012: 1.		

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							H0305; 3
518	HCWFI16	826606	528	227 - 373	3125	Glu-27 to Lys-33.	H0305; 3
519	HCWFI16	861854	529	227 - 373	3126	Glu-27 to Lys-33.	H0305; 3
520	HCWFK03	562028	530	149 - 280	3127	Ser-32 to Lys-38.	H0305; 2, H0170; 1, S0003; 1, L0803; 1 and H0651; 1.
521	HCWHD30	834724	531	262 - 300	3128		AR089; 37, AR316; 24, AR060; 11
522	HCWHT134	692400	532	190 - 288	3129		H0305; 2
523	HCWHT52	834618	533	527 - 655	3130	Asp-35 to Ser-43.	L0599; 8, H0170; 3, S0114; 1 and H0305; 1.
524	HCWKO32	610619	534	146 - 271	3131		AR089; 2, AR316; 1
525	HCWLE50	584777	535	244 - 342	3132	Glu-27 to Lys-33.	H0305; 4, L0517; 1 and L0748; 1.
526	HCWUF93	752279	536	609 - 806	3133	Ile-54 to Ile-63.	H0305; 1
							H0305; 3
							15
							AR089; 4, AR316; 2
							L0766; 10, H0457; 6, H0556; 4, L0777; 4, L0666; 3, H0265; 2, L0764; 2, L0662; 2, L0804; 2, L0776; 2, L0439; 2, L0758; 2, H0583; 1, H0305; 1, H0589; 1, S0222; 1, H0586; 1, H0486; 1, H0156; 1, S0010; 1, H0594; 1, H0188; 1, L0369; 1, L0761; 1, L0372; 1, L0521; 1, L0794; 1, L0649; 1, L0386; 1, L0803; 1, L0650; 1, L0784; 1, L0805; 1, L0659; 1, L0809; 1, L0787; 1, L0664; 1, L0665; 1, H0520; 1, H0436; 1, L0751; 1, L0749; 1, L0759; 1, L0596; 1 and L0604; 1.
527	HCWUW24	799517	537	27 - 146	3134	Leu-4 to Arg-9.	AR089; 4, AR316; 3, AR060; 2
528	HCYBA32	847042	538	173 - 265	3135		H0305; 1 and H0589; 1.
							L0666; 11, L0665; 11.
							20

529	HDAAV67	637571	539	54 - 170	3136				H0211: 1, H0316: 1, H0591: 1, H0038: 1, H0616: 1, H0116: 1, H0477: 1, H0488: 1, H0268: 1, H0413: 1, S0038: 1, L0351: 1, T0042: 1, H0494: 1, H0396: 1, S0438: 1, H0132: 1, S0150: 1, H0538: 1, H0695: 1, L0502: 1, L0769: 1, L5566: 1, L0667: 1, L0772: 1, L0771: 1, L0521: 1, L0767: 1, L0794: 1, L0774: 1, L0375: 1, L0806: 1, L0658: 1, L0793: 1, S0216: 1, H0723: 1, H0547: 1, H0593: 1, S0126: 1, H0684: 1, H0659: 1, H0672: 1, S0328: 1, S0378: 1, H0522: 1, H0696: 1, S0044: 1, H0555: 1, H0436: 1, S0392: 1, S3012: 1, S0390: 1, S0027: 1, S0032: 1, L0750: 1, L0759: 1, H0445: 1, L0588: 1, L0592: 1, L0362: 1, S0276: 1, H0543: 1 and H0422: 1.		
530	HDAABR74	861789	540	419 - 1150	3137	Pro-23 to Arg-28, Pro-40 to Pro-48, Arg-74 to Gln-81, His-124 to Gly-135, Arg-167 to Cys-173, Pro-189 to Ser-195.			H0497: 2, H0052: 1, L0805: 1, L0789: 1, L0666: 1 and S0028: 1. L0748: 9, L0794: 8, L0749: 7, L0758: 7, H0539: 6, L0439: 6, L0751: 6, H0556: 5, H0083: 5, H0547: 5, S0418: 4, H0682: 4, H0661: 3, H0370: 3, H0497: 3, H0545: 3, L0764: 3, L0766: 3, L0809: 3, L0665: 3, H0519: 3, H0521: 3, L0747: 3, H0265: 2, H0549: 2, H0046: 2, H0424: 2, H0551: 2, H0494: 2, H0130: 2, L0771: 2, L0662: 2, S0136: 2, L0741: 2, L0743: 2, L0745: 2, L0779: 2, L0590: 2, L0591: 2, L0581: 2, L0601: 2, H0543: 2, H0170: 1, H0341: 1, S0212: 1.	11q13.2-q13.5	133780, 266150, 276903, 276903, 602078

531	HDABW45	809086	541	95 - 196	3138				1, S0282: 1, S0420: 1, S0360: 1, S0408: 1, H0151: 1, H0393: 1, H0441: 1, H0455: 1, H0592: 1, H0586: 1, H0491: 1, H0013: 1, H0147: 1, H0036: 1, H0253: 1, T0048: 1, H0620: 1, H0051: 1, S0051: 1, T0010: 1, H0355: 1, H0375: 1, H0290: 1, H0292: 1, H0284: 1, H0328: 1, T0006: 1, H0155: 1, L0475: 1, H0509: 1, S0210: 1, S0002: 1, L0770: 1, L0769: 1, L0772: 1, L0767: 1, L0659: 1, L0542: 1, L0790: 1, L0666: 1, L0664: 1, H0144: 1, L0438: 1, H0658: 1, S0312: 1, S0032: 1, L0740: 1, L0771: 1, L0757: 1, H0445: 1, S0026: 1 and H0542: 1.			
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532	HDACJ52	608197	542	178 - 312	3139				15q11.2	H03581, 146150, 203200, 203200, 227220, 601623, 601800, 601889, 602117		

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533	HDCBM09	894702	543	69 - 419	3140	Pro-25 to Phe-31, Gln-99 to Lys-116.
534	HDFAB86	637573	544	155 - 274	3141	L0776: 7, L0805: 3, H0013: 2, L0439: 2, L0157: 1, H0562: 1 and L0789: 1.
535	HDFIB37	821339	545	357 - 455	3142	AR089: 8, AR316: 7.

							AR060: 6 H0587: 2, S0001: 1, H0564: 1, H0569: 1, T0010: 1 and L0438: 1.		
							H0565: 1 H0569: 1 and H0571: 1.		
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536	HDfMB91	637574	546	53 - 148	3143	Pro-33 to His-42.			
537	HDHAA55	799518	547	93 - 245	3144	Pro-15 to Cys-32.			
538	HDHEA33	847044	548	414 - 671	3145	Pro-48 to Pro-59, Pro-68 to Trp-74.			

539	HDHEB12	610260	549	294 - 497	3146	Pro-28 to Ser-35.	1, L0773: 1, L0648: 1, L0662: 1, L0363: 1, L0768: 1, L0766: 1, L0388: 1, L0804: 1, L0378: 1, L0805: 1, L0653: 1, L0382: 1, L0666: 1, L0664: 1, S0216: 1, H0144: 1, H0691: 1, S0126: 1, H0689: 1, H0682: 1, H0435: 1, H0670: 1, H0651: 1, S0152: 1, H0696: 1, S0406: 1, L0747: 1, L0750: 1, L0756: 1, S0434: 1 and H0665: 1.	Xq(13.1	304040, 305100, 305450, 309405, 312760, 314250, 314580
540	HDHEB80	809087	550	302 - 388	3147	H0570: 1	AR194: 50, AR222: 46, AR224: 44, AR214: 43, AR202: 41, AR223: 40, AR169: 37, AR207: 36, AR221: 33, AR235: 32, AR172: 30, AR206: 30, AR168: 30, AR217: 29, AR244: 29, AR263: 28, AR171: 27, AR225: 26, AR241: 26, AR216: 26, AR205: 25, AR246: 24, AR039: 24, AR215: 23, AR264: 23, AR195: 23, AR198: 22, AR311: 20, AR192: 20, AR310: 19, AR271: 19, AR243: 19, AR170: 19, AR245: 19, AR265: 18, AR162: 18, AR161: 18, AR308: 18, AR212: 18, AR252: 18, AR163: 18, AR213: 18, AR053: 18, AR309: 18, AR196: 17, AR242: 17, AR089: 17, AR273: 17,	15	
541	HDHIA16	701976	551	249 - 368	3148				

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ARI65: 16, ARI64: 16, ARI66: 15, AR251: 15, AR236: 15, AR261: 15, ARI04: 14, AR274: 14, AR204: 14, AR240: 14, ARI97: 14, ARI81: 13, AR288: 13, AR295: 13, AR312: 13, AR052: 13, AR316: 13, AR282: 13, AR297: 12, AR275: 12, ARI77: 12, ARI74: 12, AR033: 12, ARI93: 12, AR299: 12, ARI88: 12, AR281: 12, ARI80: 12, AR096: 11, AR060: 11, AR230: 11, ARI99: 11, AR201: 11, AR277: 11, AR232: 10, AR313: 10, AR239: 10, AR285: 10, AR266: 10, AR283: 10, ARI76: 10, AR238: 10, ARI91: 9, AR229: 9, AR200: 9, AR253: 9, AR250: 9, ARI86: 9, AR210: 9, AR272: 9, AR315: 9, ARI85: 8, AR300: 8, AR247: 8, ARI89: 8, AR284: 8, AR270: 8, AR296: 8, AR286: 8, AR227: 8, AR226: 8, AR289: 8, AR291: 8, AR055: 8, AR254: 7, AR314: 7, ARI90: 7, AR234: 7, ARI73: 7, ARI78: 7, AR231: 7, AR280: 7, AR203: 7, AR287: 7, AR211: 7, AR293: 7, AR268: 7, AR228: 7, AR237: 7, AR257: 7,
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542	HDHIA26	637575	552	146 - 310	3149	Met-1 to Tyr-9	AR269: 6, AR183: 6, AR262: 6, AR182: 6, AR184: 6, AR175: 6, AR294: 6, AR258: 6, AR290: 5, AR248: 5, AR249: 5, AR061: 5, AR298: 5, AR255: 5, AR218: 5, AR233: 5, AR292: 5, AR179: 4, AR267: 4, AR219: 3, AR260: 3, AR256: 3, AR259: 2 L0439: 3, L0754: 3, H0519: 2, L0748: 2, L0756: 2, L0777: 2, S0040: 1, S0360: 1, H0571: 1, T0067: 1, L0768: 1, L0665: 1, L0438: 1, L0749: 1, H0343: 1 and L0604: 1.		
543	HDHMA71	684448	553	210 - 326	3150		H0571: 1 L0794: 3, L0754: 3, S0126: 2, L0777: 2, L0731: 2, S0376: 1, H0009: 1, H0572: 1, H0014: 1, S6028: 1, H0553: 1, H0509: 1, L0662: 1, L0768: 1, L0766: 1, L0805: 1, L0809: 1, L0790: 1, L0793: 1, L0665: 1, H0547: 1, H0658: 1, H0670: 1, H0660: 1, S0330: 1, H0539: 1, H0696: 1, L0740: 1, L0752: 1 and L0366: 1.		
544	HDLAL94	843583	554	192 - 728	3151	Glu-71 to Asn-83, Asn-125 to Lys-130.	H0560: 2, H0144: 2, L0779: 2, H0225: 1, H0341: 1, H0664: 1, H0574: 1, H0485: 1, H0486: 1, H0013: 1, H0069: 1, H0615: 1, H0591: 1, H0551: 1, H0623: 1, H0509: 1, L0665: 1, H0672: 1, S0380: 1, H0518: 1, H0521: 1, L0756: 1, L0777: 1, L0731: 1 and L0758: 1.		
545	HDFAB86	901851	555	389 - 634	3152	Gln-53 to Asn-58.	L0655: 3, L0662: 2, L0663: 1 and L0758: 1.	17q11.2	15427/5, 162200.

546	HDPAE80	778068	556	181 - 348	3153	Asm-44 to Alta-50.	<p>2, H0657: 1, H0402: 1, L0055: 1, H0264: 1, S0386: 1, S0002: 1, H0529: 1, L0763: 1, L0637: 1, L0794: 1, L0649: 1, L0650: 1, L0628: 1, L0558: 1, L0659: 1, L0809: 1, L0647: 1, L0666: 1, L0665: 1, H0648: 1, H0539: 1, H0521: 1, L0590: 1 and H0668: 1.</p>		<p>1, L0200, 182138, 239100, 600881, 601954, 602403</p>
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547	HDPAQ86	612855	557	90 - 179	3154	1, S0027: 1, L0750: 1, L0779: 1, H0423: 1 and H0422: 1. AR089: 13, AR316: 9, AR060: 5 S0222: 1, H0486: 1, H0539: 1 and H0521: 1.		
548	HDPBD56	791784	558	371 - 466	3155	L0748: 24, L0766: 11, L0745: 9, L0754: 7, H0556: 6, H0580: 6, H0521: 4, L0747: 4, L0755: 4, L0596: 4, L0771: 3, L0776: 3, S0328: 3, L0439: 3, L0749: 3, H0574: 2, H0014: 2, L0804: 2, H0690: 2, L0746: 2, L0758: 2, H0445: 2, H0265: 1, H0220: 1, S0342: 1, S0114: 1, H0657: 1, H0656: 1, L0785: 1, H0663: 1, H0664: 1, H0125: 1, S0418: 1, S0360: 1, S0046: 1, H0611: 1, H0409: 1, H0497: 1, H0485: 1, H0486: 1, L0586: 1, T0114: 1, H0156: 1, H0599: 1, H0575: 1, H0581: 1, H0597: 1, H0046: 1, H0050: 1, H0673: 1, H0674: 1, S0036: 1, H0040: 1, T0042: 1, H0625: 1, L0770: 1, L0769: 1, L0761: 1, L0667: 1, L0794: 1, L0803: 1, L0774: 1, L0783: 1, L0789: 1, L0792: 1, L0665: 1, S0216: 1, H0547: 1, H0666: 1, H0672: 1, H0518: 1, H0522: 1, S0242: 1 and H0543: 1.		
549	HDPBN48	838593	559	126 - 227	3156	AR312: 7, AR313: 6, AR213: 6, AR263: 6, AR309: 5, AR053: 5, AR310: 5, AR183: 5, AR241: 4, AR274: 4, AR282: 4, AR052: 4, AR096: 4, AR299: 4, AR184: 4, AR089: 4.		

550	HDPCG79	691350	560	240 - 314	3157		AR247: 4, AR198: 3, AR248: 3, AR226: 3, AR273: 3, AR229: 3, AR253: 3, AR277: 3, AR039: 3, AR192: 3, AR271: 3, AR185: 3, AR316: 3, AR240: 2, AR204: 2, AR202: 2, AR300: 2, AR231: 2, AR219: 2, AR218: 2, AR290: 2, AR244: 2, AR186: 2, AR296: 2, AR270: 2, AR275: 2, AR268: 2, AR237: 2, AR234: 2, AR295: 2, AR293: 2, AR256: 2, AR060: 2, AR269: 2, AR315: 2, AR227: 2, AR249: 2, AR033: 2, AR238: 2, AR251: 2, AR267: 2, AR177: 1, AR292: 1, AR258: 1, AR104: 1, AR291: 1, AR055: 1, AR175: 1, AR294: 1, AR061: 1, AR298: 1, AR265: 1, AR205: 1, AR281: 1, AR289: 1, AR280: 1, AR314: 1, AR285: 1 H0521: 2, H0265: 1, S0464: 1, L0761: 1 and H0445: 1, H0031: 2, H0543: 2, L0459: 1, H0306: 1, L0717: 1, H0635: 1, H0674: 1, H0634: 1, H0509: 1, L0772: 1, L0776: 1, L0666: 1, L0663: 1 and H0521: 1.
551	HDPCV29	567228	561	95 - 226	3158	Met-1 to Gln-9, Ile-12 to Cys-20, Leu-29 to Ser-42.	H0521: 1
552	HDPPDA36	827283	562	305 - 403	3159		H0521: 1

553	HDPDC59	872451	563	320 - 490	3160	Trp-17 to Thr-26, Leu-28 to Ser-33.	AR194: 12, AR281: 10, AR205: 9, AR202: 9, AR310: 8, AR206: 8, AR263: 8, AR315: 8, AR280: 8, AR243: 8, AR244: 8, AR039: 8, AR198: 8, AR289: 7, AR246: 7, AR282: 7, AR265: 7, AR266: 7, AR192: 6, AR283: 6, AR033: 6, AR284: 6, AR184: 6, AR296: 6, AR285: 6, AR241: 6, AR251: 6, AR314: 6, AR271: 6, AR299: 5, AR204: 5, AR269: 5, AR270: 5, AR182: 5, AR286: 5, AR312: 5, AR274: 5, AR295: 5, AR273: 5, AR291: 5, AR277: 5, AR298: 5, AR089: 5, AR275: 5, AR316: 5, AR213: 5, AR268: 4, AR055: 4, AR292: 4, AR053: 4, AR300: 4, AR309: 4, AR247: 4, AR227: 4, AR313: 4, AR183: 4, AR052: 4, AR096: 4, AR232: 4, AR294: 4, AR229: 4, AR238: 4, AR290: 4, AR267: 3, AR248: 3, AR293: 3, AR226: 3, AR060: 3, AR234: 3, AR186: 3, AR061: 3, AR231: 3, AR177: 3, AR240: 3, AR104: 3, AR185: 2, AR233: 2, AR237: 2, AR175: 2, AR253: 2.
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554	HDPFG13	637580	564	170 - 361	3161	Thr-49 to Ala-55.	L0752: 6, L0748: 3, L0756: 3, H0657: 2, L0764: 2, S0404: 2, L0740: 2, L0747: 2, L0759: 2, L0593: 2, H0671: 1, S0418: 1, S0358: 1, S0007: 1, H0619: 1, H0441: 1, H0392: 1, H0586: 1, L0021: 1, H0553: 1, H0032: 1, H0124: 1, H0634: 1, H0551: 1, H0412: 1, S0002: 1, L0796: 1, L0761: 1, L0646: 1, L0794: 1, L0803: 1, L0775: 1, L0655: 1, L0659: 1, L0783: 1, L0664: 1, L0665: 1, H0519: 1, H0539: 1, H0521: 1, L0754: 1, L0779: 1, L0777: 1, L0755: 1, L0595: 1, H0665: 1, H0542: 1 and H0543: 1.		
555	HDPFK27	825903	565	283 - 387	3162		S0010: 1, L0527: 1, L0518: 1, H0521: 1 and L0605: 1.		
556	HDPFZ05	824390	566	172 - 300	3163		H0521: 2, H0201: 1 and L0745: 1.		
557	HDPGA84	833050	567	17 - 319	3164	Lys-25 to Gly-30, Tyr-48 to Phe-59.	AR104: 45, AR298: 31, AR186: 25, AR227: 21, AR182: 21, AR285: 21, AR089: 21, AR060: 20, AR295: 19, AR316: 14, AR284: 14, AR267: 14, AR184: 13, AR226: 13, AR292: 13, AR232: 12, AR206: 12, AR286: 11, AR234: 10, AR229: 10, AR185: 10, AR233: 10, AR198: 9, AR290: 9, AR268: 9, AR061: 8, AR231: 8, AR270: 7, AR175: 7, AR300: 6, AR204: 6, AR291: 6.		

559	HDPGU14	832543	569	1202-1213	3166			4, L0438: 4, L0439: 4, L0752: 4, S0360: 3, H0013: 3, H0040: 3, H0529: 3, L0770: 3, L0764: 3, L0666: 3, L0663: 3, H0144: 3, H0547: 3, H0171: 2, H0657: 2, H0638: 2, H0581: 2, H0083: 2, H0068: 2, H0264: 2, L0662: 2, L0768: 2, L0774: 2, L0791: 2, L0665: 2, L0740: 2, L0749: 2, L0750: 2, L0731: 2, L0758: 2, L0581: 2, S0218: 1, H0656: 1, S0212: 1, S0358: 1, H0580: 1, S0046: 1, H0370: 1, H0586: 1, H0587: 1, H0486: 1, L0021: 1, H0004: 1, H0052: 1, H0263: 1, L0471: 1, H0594: 1, H0266: 1, H0271: 1, H0622: 1, H0031: 1, H0553: 1, H0135: 1, H0591: 1, H0634: 1, H0616: 1, H0412: 1, H0413: 1, H0056: 1, T0042: 1, H0494: 1, H0625: 1, H0561: 1, H0130: 1, S0422: 1, S0426: 1, L0763: 1, L0769: 1, L0637: 1, L0761: 1, L0767: 1, L0364: 1, L0766: 1, L0388: 1, L0804: 1, L0806: 1, L0776: 1, L0655: 1, L0661: 1, L0518: 1, L0809: 1, L0530: 1, S0053: 1, H0519: 1, S0126: 1, H0648: 1, H0710: 1, H0518: 1, H0522: 1, S0146: 1, H0555: 1, L0753: 1, L0755: 1, L0759: 1, H0445: 1, S0436: 1, L0599: 1, S0242: 1, H0423: 1 and H0422: 1, H0521: 46, S0003: 24, L0752: 19, S0126: 14, L0777: 12, H0090: 10, S0360: 9, H0644: 9, L0659: 8, L0731: 8, H0580: 7, S0214: 7, L0666: 7, L0663: 7, L0439: 7, H0624: 6,	8q12	181030
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560	HDPGX09	580818	570	90 - 182	3167	<p>H0662: 1, H0402: 1, H0125: 1, S0418: 1, S0468: 1, S0132: 1, S0300: 1, H0437: 1, H0441: 1, H0455: 1, H0438: 1, H0331: 1, H0270: 1, T0040: 1, H0427: 1, H0136: 1, H0004: 1, S0010: 1, H0705: 1, S0049: 1, H0545: 1, H0046: 1, H0457: 1, H0050: 1, H0014: 1, H0015: 1, H0051: 1, H0071: 1, H0083: 1, H0355: 1, H0594: 1, H0266: 1, H0416: 1, S0230: 1, H0688: 1, T0023: 1, H0031: 1, H0169: 1, H0316: 1, H0598: 1, H0551: 1, H0488: 1, H0433: 1, H0268: 1, H0413: 1, H0059: 1, S0112: 1, L0351: 1, L0564: 1, T0041: 1, T0042: 1, S0464: 1, L0065: 1, H0509: 1, H0132: 1, H0130: 1, H0646: 1, UNKWN: 1, L0762: 1, L0763: 1, L0770: 1, L0769: 1, L0638: 1, L0761: 1, L0667: 1, L0800: 1, L0374: 1, L0767: 1, L0768: 1, L0794: 1, L0549: 1, L0774: 1, L0632: 1, L0776: 1, L0655: 1, L0606: 1, L0636: 1, L0546: 1, L0382: 1, H0693: 1, H0593: 1, S0122: 1, H0660: 1, H0666: 1, H0648: 1, S0328: 1, S0380: 1, H0710: 1, H0518: 1, S0013: 1, H0696: 1, H0436: 1, S0392: 1, H0540: 1, S0028: 1, L0740: 1, S0260: 1, S0434: 1, L0595: 1, L0366: 1, H0668: 1, S0276: 1, H0422: 1, S0424: 1 and H0506: 1.</p> <p>L0752: 6, L0747: 4, S0007: 3, L0776: 3, L0439: 3, H0686: 2, T0039: 2, H0052: 2, H0009: 2, H0068: 2, L0769: 2, L0809: 2.</p>		
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561	HDPIE44	899328	571	169 - 351	3168	<p>2, L0438: 2, L0757: 2, L0590: 2, L0599: 2, L0595: 2, S0040: 1, H0294: 1, S0376: 1, S0360: 1, H0580: 1, H0550: 1, H0587: 1, H0486: 1, H0013: 1, L0471: 1, H0023: 1, S0362: 1, H0266: 1, H0290: 1, H0428: 1, H0031: 1, H0038: 1, H0551: 1, H0412: 1, T0041: 1, T0042: 1, H0561: 1, S0144: 1, H0538: 1, H0529: 1, L0372: 1, L0773: 1, L0626: 1, L0768: 1, L0519: 1, H0701: 1, H0547: 1, H0659: 1, H0660: 1, H0651: 1, H0539: 1, S0380: 1, H0710: 1, H0521: 1, H0214: 1, H0478: 1, H0540: 1, L0742: 1, L0743: 1, L0750: 1, L0731: 1, S0434: 1, L0592: 1 and H0543: 1.</p> <p>AR263: 6, AR265: 3, AR184: 3, AR183: 3, AR269: 3, AR313: 2, AR312: 2, AR270: 2, AR268: 2, AR298: 2, AR296: 2, AR292: 2, AR060: 2, AR052: 2, AR291: 2, AR198: 2, AR192: 2, AR286: 2, AR267: 2, AR295: 2, AR290: 2, AR316: 2, AR289: 1, AR089: 1, AR231: 1, AR213: 1, AR247: 1, AR282: 1, AR284: 1, AR096: 1, AR293: 1, AR053: 1, AR033: 1, AR238: 1, AR258: 1, AR182: 1, AR177: 1, AR310: 1, S0358: 3, H0622: 2, H0553: 2, H0090: 2, L0769: 2, L0794: 2.</p>		
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562	HDPIE73	886158	572	212 - 328	3169			2, H0547: 2, S0126: 2, L0747: 2, H0265: 1, S0418: 1, H0208: 1, S0045: 1, H0486: 1, H0052: 1, H0046: 1, H0024: 1, H0051: 1, H0375: 1, H0634: 1, H0488: 1, T0042: 1, H0494: 1, H0561: 1, S0438: 1, H0538: 1, L0800: 1, L0803: 1, L0804: 1, L0805: 1, L4501: 1, H0521: 1, H0555: 1, L0779: 1, S0436: 1 and H0506: 1.		
								AR089: 3, AR316: 2, AR060: 2 H0521: 1		
563	HDPIE35	826781	573	102 - 167	3170	Val-1 to Ser-13.		H0521: 1	11	
564	HDPIE65	847047	574	38 - 211	3171					
565	HDPIE25	740749	575	181 - 336	3172	Pro-21 to Ser-28.		H0457: 6, L0770: 4, L0775: 3, L0747: 3, L0662: 2, L0663: 2, H0521: 2, L0751: 2, L0731: 2, L0758: 2, H0445: 2, T0002: 1, H0657: 1, H0255: 1, H0402: 1, H0638: 1, S0408: 1, H0619: 1, S0222: 1, H0370: 1, H0333: 1, H0101: 1, H0575: 1, H0052: 1, H0546: 1, H0563: 1, H0050: 1, H0620: 1, S0031: 1, H0622: 1, H0644: 1, H0617: 1, H0606: 1, H0077: 1, S0002: 1, L0638: 1, L0796: 1, L0761: 1, L0646: 1, L0764: 1, L0794: 1, L0766: 1, L0806: 1, L0657: 1, L0665: 1, H0593: 1, H0670: 1, S0328: 1, H0539: 1, H0522: 1, H0696: 1, H0555: 1, S3012: 1, L0741: 1, L0439: 1, L0779: 1, L0780: 1, L0603: 1 and H0543: 1.		
566	HDPIY31	886159	576	268 - 375	3173			AR214: 26, AR263: 25, AR224: 21, AR222: 20, AR364: 20, AR223: 19,	20q13.31- 20q13.33	261680

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567	HDPJH72	847048	577	603 - 1163	3174	Pro-6 to Pro-11, Ala-43 to Gly-50, Glu-76 to Cys-92, Ser-101 to Trp-110, Pro-163 to Ser-169.	<p>H0559: 1, H0013: 1, H0069: 1, H0156: 1, H0590: 1, S0346: 1, H0085: 1, H0544: 1, H0545: 1, H0439: 1, H0150: 1, H0041: 1, S0388: 1, S0051: 1, T0010: 1, H0271: 1, H0416: 1, H0188: 1, H0288: 1, S0022: 1, T0006: 1, H0213: 1, H0628: 1, H0617: 1, H0135: 1, H0087: 1, H0551: 1, H0477: 1, H0059: 1, S0038: 1, L0435: 1, T0042: 1, H0494: 1, S0344: 1, S0426: 1, L0640: 1, L0769: 1, L0638: 1, L0642: 1, L0764: 1, L0662: 1, L0794: 1, L0803: 1, L0774: 1, L0375: 1, L0806: 1, L0805: 1, L0655: 1, L0493: 1, L0659: 1, L0809: 1, L0789: 1, H0519: 1, S0126: 1, H0690: 1, H0682: 1, S0330: 1, H0539: 1, H0522: 1, S0037: 1, L0751: 1, L0754: 1, L0746: 1, L0749: 1, L0786: 1, H0445: 1, L0596: 1, H0542: 1 and H0543: 1.</p>	22q12.3-q13.2	138981, 188826, 190040, 190040, 190040, 600850, 601669
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568	HDPV53	815655	578	145 - 318	3175				L0779: 2, S0436: 2, L0604: 2, H0653: 2, H0265: 1, H0556: 1, H0141: 1, H0585: 1, S0180: 1, H0661: 1, H0638: 1, S0418: 1, S0420: 1, S0442: 1, S0444: 1, H0728: 1, H0735: 1, S0045: 1, S0046: 1, H0550: 1, H0587: 1, H0497: 1, H0559: 1, H0069: 1, H0253: 1, T0048: 1, H0581: 1, H0744: 1, H0544: 1, H0046: 1, H0266: 1, H0179: 1, H0416: 1, H0286: 1, H0252: 1, H0039: 1, H0553: 1, L0055: 1, H0634: 1, H0477: 1, H0059: 1, H0494: 1, S0210: 1, L0640: 1, L0763: 1, L0637: 1, L5565: 1, L0761: 1, L0772: 1, L0800: 1, L0643: 1, L0553: 1, L0768: 1, L0803: 1, L0653: 1, L0382: 1, L0368: 1, L0793: 1, L0664: 1, L0565: 1, S0126: 1, H0683: 1, H0518: 1, L0716: 1, H0528: 1, S0406: 1, S3014: 1, S0028: 1, S0032: 1, L0746: 1, L0759: 1, L0361: 1, L0097: 1, S0192: 1, S0194: 1 and H0542: 1.			
569	HDPV75	745376	579	382 - 453	3176	Glu-1 to Val-6.			L0803: 1 and H0321: 1, L0754: 3, L0777: 3, L0759: 3, H0014: 2, H0580: 1, H0440: 1, H0004: 1, H0546: 1, H0375: 1, H0553: 1, H0628: 1, H0316: 1, H0658: 1, H0670: 1, S0330: 1, H0521: 1, H0522: 1, L0755: 1 and S0242: 1.	3q28	165500, 600700	
570	HDPKC55	822869	580	102 - 1463	3177	Asp-26 to Gly-32, Ala-81 to Gln-90, Lys-97 to Trp-104, Asn-157 to Lys-167, Ser-247 to Leu-256, Met-1 to Leu-10.			H0266: 2, L0662: 2, H0521: 2, L0759: 2, H0032: 1, L0659: 1 and L0748: 1.			
571	HDPKD16	897304	581	274 - 339	3178				H0521: 4, H0553: 2, H0556: 1			

572	HDPMC52	847049	582	214 - 450	3179	Met-29 to Tyr-39.	1, H0392: 1, H0231: 1, H0628: 1, H0674: 1, H0124: 1, H0494: 1, H0625: 1, L0369: 1, L0772: 1, L0643: 1, S0216: 1, S0126: 1, S0332: 1, L0747: 1, L0731: 1, H0543: 1 and S0424: 1. AR252: 237, AR253: 67, AR254: 21, AR250: 14, AR195: 12, AR271: 11, AR199: 10, AR312: 9, AR197: 9, AR268: 8, AR245: 8, AR246: 8, AR192: 7, AR242: 7, AR096: 7, AR229: 7, AR173: 7, AR198: 6, AR207: 6, AR308: 6, AR169: 5, AR290: 5, AR039: 5, AR313: 5, AR053: 5, AR272: 5, AR269: 5, AR168: 5, AR212: 5, AR205: 5, AR177: 5, AR200: 5, AR162: 4, AR270: 4, AR214: 4, AR161: 4, AR222: 4, AR163: 4, AR190: 4, AR217: 4, AR201: 4, AR223: 4, AR267: 4, AR180: 4, AR183: 4, AR189: 4, AR171: 4, AR164: 4, AR170: 4, AR243: 4, AR204: 4, AR311: 4, AR193: 4, AR165: 4, AR263: 4, AR309: 4, AR213: 4, AR224: 4, AR166: 4, AR188: 4, AR178: 4, AR316: 4, AR172: 3, AR300: 3, AR275: 3, AR238: 3, AR185: 3, AR215: 3.	13q32-34	15900, 156600, 180381, 227500, 227600, 232000, 1, 238970, 256731, 602085
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573	HDPML04	822851	583	98 - 196	3180	Tyr-26 to Glu-32.	AR299: 3, AR175: 3, AR240: 3, AR203: 3, AR247: 3, AR174: 3, AR182: 3, AR191: 3, AR264: 3, AR196: 3, AR282: 3, AR296: 3, AR274: 3, AR231: 3, AR237: 3, AR234: 3, AR277: 3, AR089: 2, AR225: 2, AR283: 2, AR216: 2, AR181: 2, AR266: 2, AR226: 2, AR228: 2, AR236: 2, AR293: 2, AR239: 2, AR179: 2, AR289: 2, AR257: 2, AR176: 2, AR262: 2, AR060: 2, AR233: 2, AR061: 2, AR288: 2, AR291: 2, AR286: 2, AR033: 2, AR218: 2, AR232: 2, AR297: 2, AR227: 2, AR258: 2, AR230: 1, AR210: 1, AR287: 1, AR256: 1, AR295: 1, AR219: 1, AR211: 1, AR255: 1, AR104: 1, AR285: 1 H0638: 2, H0486: 2, H0529: 2, L5568: 2, L0748: 2, S0116: 1, H0341: 1, H0402: 1, L0105: 1, H0318: 1, S0474: 1, H0421: 1, H0179: 1, H0622: 1, S0142: 1, L0776: 1, S0428: 1, H0521: 1, H0522: 1, S0028: 1, L0749: 1, H0445: 1, H0343: 1 and L0362: 1.			
							H0542: 2, H0402: 1, H0081: 1 and H0522: 1.			
574	HDPMM22	683899	584	332 - 439	3181	Lys-16 to Arg-23.	L0751: 2 and H0522: 1.			

575	HDPNC21	839263	585	40 - 246	3182	Met-20 to Leu-38, Asn-44 to Arg-49, Arg-60 to Pro-68.	AR313: 41, AR281: 36, AR089: 26, AR315: 26, AR280: 26, AR198: 25, AR299: 25, AR263: 24, AR194: 24, AR202: 23, AR096: 23, AR241: 23, AR247: 22, AR314: 22, AR265: 22, AR218: 21, AR183: 21, AR240: 20, AR033: 20, AR258: 20, AR238: 20, AR300: 19, AR213: 19, AR312: 19, AR246: 19, AR310: 19, AR269: 19, AR219: 19, AR182: 19, AR293: 19, AR205: 19, AR177: 18, AR283: 18, AR270: 18, AR282: 18, AR229: 18, AR053: 17, AR244: 17, AR316: 17, AR192: 17, AR289: 17, AR226: 17, AR296: 17, AR285: 16, AR268: 16, AR295: 16, AR292: 16, AR206: 16, AR266: 15, AR259: 15, AR243: 14, AR284: 14, AR184: 14, AR286: 14, AR277: 14, AR291: 14, AR256: 14, AR185: 14, AR294: 13, AR060: 13, AR052: 13, AR175: 13, AR267: 13, AR039: 13, AR104: 13, AR309: 12, AR204: 12, AR249: 12, AR290: 12, AR233: 12, AR234: 12, AR251: 12, AR232: 12, AR231: 11, AR227: 11, AR271: 11, AR237: 10, AR298: 10, AR055: 9, AR248: 9.
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576	HDPN126	852338	586	422 - 574	3183			AR186: 8, AR275: 8, AR273: 8, AR253: 8, AR179: 8, AR274: 7, AR061: 6 L0748: 5, L0794: 4, L0438: 4, L0779: 4, L0752: 4, H0124: 3, L0803: 3, L0777: 3, H0556: 2, H0046: 2, L0771: 2, L0766: 2, L0791: 2, L0743: 2, L0747: 2, H0657: 1, H0664: 1, S0420: 1, H0392: 1, H0250: 1, H0085: 1, H0620: 1, H0071: 1, H0213: 1, H0417: 1, H0087: 1, T0067: 1, L0763: 1, L0770: 1, L0769: 1, L0637: 1, L0773: 1, L0768: 1, L0805: 1, L0807: 1, L0512: 1, L0783: 1, L0790: 1, L0664: 1, H0670: 1, S0330: 1, H0539: 1, H0522: 1, L0740: 1, L0758: 1, L0759: 1 and H0352: 1, AR060: 2, AR316: 1, AR089: 1		
577	HDPD73	876202	587	446 - 472	3184			H0521: 3, L0759: 2, H0638: 1, S0356: 1, S0360: 1, L0021: 1 and H0522: 1, H0521: 20, L0648: 6, L0783: 6, H0586: 5, H0587: 5, L0665: 4, S0330: 4, H0522: 4, H0242: 3, H0379: 3, L0662: 3, L0809: 3, H0593: 3, L0748: 3, H0661: 2, H0602: 2, H0510: 2, H0487: 2, H0641: 2, L0649: 2, L0659: 2, L0790: 2, S0328: 2, S0406: 2, L0539: 1, S0358: 1, S0222: 1, H0486: 1, H0013: 1, L0021: 1, H0081: 1, H0050: 1, H0355: 1, H0375: 1, H0674: 1, H0040: 1, H0380: 1, H0264: 1, H0488: 1, T0041: 1, H0494: 1, S0370:	9p13	230400, 250250
578	HDPOT33	892319	588	691 - 984	3185	Ala-50 to Pro-55, Leu-62 to Glu-69, Ser-81 to His-88.				

579	HDPPB70	874027	589	257 - 1189	3186	Ser-44 to Ser-64, Glu-84 to Ile-90, Pro-93 to Gly-108.	1, S0448: 1, H0647: 1, H0649: 1, L0761: 1, L0642: 1, L0764: 1, L0376: 1, L0806: 1, L0518: 1, L0789: 1, L0666: 1, L0663: 1, H0672: 1, H0696: 1, H0436: 1, H0478: 1, L0749: 1, H0445: 1 and S0446: 1. AR184: 4, AR275: 4, AR183: 3, AR296: 3, AR282: 3, AR270: 3, AR268: 3, AR053: 3, AR060: 3, AR291: 2, AR182: 2, AR089: 2, AR249: 2, AR273: 2, AR290: 2, AR247: 2, AR294: 2, AR289: 2, AR269: 2, AR267: 2, AR309: 2, AR175: 1, AR186: 1, AR039: 1, AR284: 1, AR292: 1, AR052: 1, AR185: 1, AR205: 1, AR286: 1, AR096: 1, AR266: 1, AR316: 1, AR298: 1 S0410: 5, S0358: 4, L0759: 4, S0444: 3, H0599: 3, L0803: 3, L0774: 3, H0521: 3, H0638: 2, S0354: 2, S0408: 2, H0580: 2, H0674: 2, L0761: 2, L0764: 2, L0659: 2, L0809: 2, L0789: 2, L0438: 2, H0522: 2, S0434: 2, H0717: 1, S0376: 1, H0586: 1, H0485: 1, H0013: 1, S0003: 1, H0039: 1, T0006: 1, S0386: 1, H0560: 1, S0440: 1, L0800: 1, L0662: 1, L0783: 1, L0790: 1, S0330: 1, H0696: 1, L0779: 1, L0777: 1, L0755: 1, L0758: 1 and H0653: 1.	4q13.3-q21.3	104500, 125490, 163890, 173910, 252500, 252500
580	HDPPC19	561937	590	271 - 465	3187		H0522: 1		

581	HDPPE05	809109	591	303 - 353	3188		L0794: 10, S0040: 1, H0583: 1, H0305: 1, H0069: 1, H0545: 1, L0471: 1, H0428: 1, L0803: 1, L0790: 1, L0666: 1, S0428: 1, S0330: 1, H0521: 1, H0522: 1, L0750: 1 and S0106: 1. AR060: 2, AR316: 1, AR089: 1 H0521: 5, S0003: 4, H0494: 3, L0646: 3, L0803: 3, L0659: 3, S0040: 2, H0716: 2, S0418: 2, S0356: 2, H0013: 2, H0032: 2, S0002: 2, L0770: 2, L0804: 2, L0790: 2, H0522: 2, L0731: 2, S0116: 1, H0663: 1, H0662: 1, H0638: 1, S0376: 1, S0360: 1, H0580: 1, L0717: 1, H0587: 1, H0250: 1, H0427: 1, L0105: 1, H0375: 1, S0214: 1, H0622: 1, H0644: 1, H0591: 1, H0040: 1, H0646: 1, S0426: 1, H0529: 1, L0662: 1, L0806: 1, L0382: 1, L0666: 1, L0665: 1, S0126: 1, H0651: 1, S0330: 1, H0539: 1, H0518: 1, H0436: 1, S0028: 1, L0743: 1, L0747: 1, L0780: 1, L0605: 1 and S0192: 1.		120110, 121014, 156225, 164200, 164200, 601410, 601757
582	HDPNA70	722216	592	252 - 302	3189		6q22		
583	HDPSS56	847051	593	186 - 281	3190		L0731: 9, L0754: 6, S0422: 5, L0805: 5, L0756: 5, L0766: 4, S0406: 4, H0436: 4, L0439: 4, S0376: 3, S0444: 3, L0771: 3, L0794: 3, L0803: 3, L0655: 3, L0665: 3, H0521: 3, L0755: 3, S0003: 2, L0763: 2, L0776: 2, L0657: 2, L0515: 2, L0438: 2, H0547: 2, H0696: 2, L0740: 2, L0779: 2, L0757: 2, L0758: 2, L0591: 2, L0361: 2, H0170: 1, T0002: 1, S0114: 1, H0583: 1, S0212: 1, H0125: 1, S0348: 1.		

584	HDPSZ07	784681	594	244 - 363	3191		1, S0408: 1, H0208: 1, S0046: 1, S0476: 1, H0486: 1, H0581: 1, L0738: 1, H0544: 1, H0057: 1, H0373: 1, H0179: 1, H0687: 1, H0092: 1, H0553: 1, H0674: 1, H0090: 1, H0412: 1, L5575: 1, L0646: 1, L0764: 1, L0662: 1, L0804: 1, L0630: 1, L0774: 1, L0775: 1, L0606: 1, L0656: 1, L0809: 1, L0788: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, H0691: 1, H0682: 1, S0404: 1, L0731: 1, L0747: 1, L0739: 1, S0434: 1, L0605: 1, L0595: 1, S0242: 1, H0542: 1 and H0506: 1.		
							AR060: 2, AR316: 1, S0114: 1, S0134: 1, H0589: 1, H0521: 1 and H0543: 1.		
585	HDPSZ07	856574	595	244 - 363	3192		AR060: 2, AR316: 1, S0114: 1, S0134: 1, H0589: 1, H0521: 1 and H0543: 1.		
586	HDPSZ07	897740	596	244 - 363	3193		AR060: 2, AR316: 1, S0114: 1, S0134: 1, H0589: 1, H0521: 1 and H0543: 1.		
587	HDPT149	847052	597	182 - 289	3194	Ser-25 to Glu-30.	H0305: 3, S0010: 1 and H0521: 1.		
588	HDPT122	826725	598	236 - 349	3195		AR060: 1, AR316: 1, S0426: 2, H0550: 1, S0388: 1, H0521: 1 and S0031: 1.		
589	HDPE25	636058	599	301 - 372	3196		AR089: 20, AR316: 20, AR060: 19, L0717: 1, H0052: 1, S0051: 1, S0112: 1, L0764: 1 and H0521: 1.		
590	HDQGD06	838076	600	469 - 1401	3197	Asn-16 to Tyr-21, Glu-55 to His-76, Tyr-109 to Tyr-118, Ser-122 to Ser-127.	AR251:194, AR273:1034, AR053: 905, AR265: 902, AR309: 688, AR219: 668, AR310: 662, AR096: 638,	11	

Thr-174 to Arg-179, Pro-249 to Ser-254.	AR218: 626, AR263: 613, AR243: 579, AR240: 512, AR312: 479, AR249: 463, AR213: 448, AR052: 365, AR246: 362, AR269: 334, AR104: 331, AR280: 329, AR274: 326, AR268: 324, AR253: 323, AR290: 322, AR275: 314, AR248: 308, AR175: 286, AR198: 268, AR281: 260, AR270: 252, AR271: 248, AR179: 247, AR313: 246, AR205: 238, AR315: 237, AR177: 236, AR183: 232, AR185: 221, AR314: 218, AR186: 214, AR184: 212, AR300: 190, AR039: 183, AR033: 172, AR299: 166, AR192: 161, AR194: 151, AR267: 149, AR256: 145, AR204: 141, AR247: 140, AR234: 136, AR244: 133, AR266: 128, AR241: 121, AR316: 120, AR206: 119, AR282: 119, AR182: 113, AR229: 104, AR284: 102, AR289: 94, AR237: 76, AR285: 74, AR202: 72, AR231: 68, AR291: 65, AR238: 65, AR292: 55, AR277: 54, AR258: 53, AR232: 53, AR283: 52, AR296: 45, AR286: 43, AR298: 41, AR295: 40, AR259: 40, AR055: 38, AR226: 36, AR293: 33, AR089: 32, AR294: 32, AR233: 31, AR061: 26, AR227: 19, AR060: 19
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591	HDQGD06	852673	601	469 - 1401	3198	Asn-16 to Tyr-21, Glu-55 to His-76, Tyr-109 to Tyr-118, Ser-122 to Ser-127, Thr-174 to Arg-179, Pro-249 to Ser-254.	L0766: 10, H0521: 10, H0522: 5, L0666: 4, L0663: 4, H0580: 2, L0761: 2, L0659: 2, L0779: 2, H0255: 1, S0222: 1, H0392: 1, H0039: 1, H0622: 1, H0641: 1, S0144: 1, S0002: 1, L0762: 1, L0763: 1, L0770: 1, L0772: 1, L0642: 1, L0645: 1, L0662: 1, L0806: 1, L0783: 1, L0791: 1, L0792: 1, H0702: 1, H0689: 1, H0683: 1, H0696: 1, H0555: 1, H0667: 1, S0192: 1 and S0242: 1.	11	
						AR251: 1194, AR273: 1034, AR053: 905, AR265: 902, AR309: 688, AR219: 668, AR310: 662, AR096: 638, AR218: 626, AR263: 613, AR243: 579, AR240: 512, AR312: 479, AR249: 463, AR213: 448, AR052: 365, AR246: 362, AR269: 334, AR104: 331, AR280: 329, AR274: 326, AR268: 324, AR253: 323, AR290: 322, AR275: 314, AR248: 308, AR175: 286, AR198: 268, AR281: 260, AR270: 252, AR271: 248, AR179: 247, AR313: 246, AR205: 238, AR315: 237, AR177: 236, AR183: 232, AR185: 221, AR314: 218, AR186: 214, AR184: 212, AR300: 190, AR039: 183, AR033: 172, AR299: 166, AR192: 161, AR194: 151, AR267: 149, AR256: 145, AR204: 141, AR247: 140, AR234: 136, AR244: 133, AR266: 128,			

592	HDQGD06	881280	602	470 - 1579	3199	Asn-16 to Tyr-21, Glu-55 to His-76, Tyr-109 to Tyr-118, Ser-122 to Ser-127, Arg-175 to Asp-181, Glu-325 to Glu-330.	AR241: 121, AR316: 120, AR206: 119, AR282: 119, AR182: 113, AR229: 104, AR284: 102, AR289: 94, AR237: 76, AR285: 74, AR202: 72, AR231: 68, AR291: 65, AR238: 65, AR292: 55, AR277: 54, AR258: 53, AR232: 53, AR283: 52, AR296: 45, AR286: 43, AR298: 41, AR295: 40, AR259: 40, AR055: 38, AR226: 36, AR293: 33, AR089: 32, AR294: 32, AR233: 31, AR061: 26, AR227: 19, AR060: 19 L0766: 10, H0521: 10, H0522: 5, L0666: 4, L0663: 4, H0580: 2, L0761: 2, L0659: 2, L0779: 2, H0255: 1, S0222: 1, H0392: 1, H0039: 1, H0622: 1, H0641: 1, S0144: 1, S0002: 1, L0762: 1, L0763: 1, L0770: 1, L0772: 1, L0642: 1, L0645: 1, L0662: 1, L0806: 1, L0783: 1, L0791: 1, L0792: 1, H0702: 1, H0689: 1, H0683: 1, H0696: 1, H0555: 1, H0667: 1, S0192: 1 and S0242: 1.	AR251: 1194, AR273: 1034, AR053: 905, AR265: 902, AR309: 688, AR219: 668, AR310: 662, AR096: 638, AR218: 626, AR263: 613, AR243: 579, AR240: 512, AR312: 479, AR249: 463, AR213: 448, AR052: 365, AR246: 362, AR269: 334, AR104: 331, AR280: 329,	11	
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593	HDCGN08	840588	603	96 - 509	3200	L0762: 1, L0763: 1, L0770: 1, L0772: 1, L0642: 1, L0645: 1, L0662: 1, L0806: 1, L0783: 1, L0791: 1, L0792: 1, H0702: 1, H0689: 1, H0683: 1, H0696: 1, H0555: 1, H0667: 1, S0192: 1 and S0242: 1.		
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594	HDQGM62	837353	604	728 - 760	3201		AR286: 3, AR289: 3, AR052: 3, AR205: 2, AR179: 2, AR280: 2, AR298: 2, AR232: 2, AR251: 2, AR295: 2, AR213: 2, AR033: 2, AR253: 2, AR256: 2, AR309: 2, AR202: 2, AR281: 2, AR266: 1, H0581: 1, L0794: 1, H0547: 1, H0521: 1 and L0747: 1, AR089: 34, AR316: 33, AR060: 32 L0749: 6, L0666: 4, L0770: 3, L0769: 3, L0740: 3, L0747: 3, L0777: 3, L0758: 3, H0484: 2, H0421: 2, H0150: 2, S0388: 2, H0428: 2, H0673: 2, H0100: 2, H0529: 2, L0774: 2, L0775: 2, H0696: 2, L0751: 2, L0752: 2, L0759: 2, L0599: 2, L0608: 2, H0306: 1, H0305: 1, S0418: 1, S0356: 1, S0358: 1, S0444: 1, S0408: 1, H0339: 1, H0550: 1, S0222: 1, H0431: 1, H0404: 1, T0115: 1, H0570: 1, H0510: 1, H0687: 1, H0252: 1, H0708: 1, H0135: 1, H0038: 1, H0616: 1, H0087: 1, H0413: 1, H0561: 1, S0438: 1, S0440: 1, S0422: 1, L0767: 1, L0803: 1, L0652: 1, L0776: 1, L0655: 1, L0809: 1, L0647: 1, H0689: 1, H0690: 1, H0659: 1, S0378: 1, H0521: 1, H0555: 1, H0436: 1, L0743: 1, L0439: 1, L0754: 1, L0485: 1, S0026: 1, H0665: 1 and S0424: 1	14q21.1-q21.3	182600, 232700, 602086
595	HDQPM16	886161	605	473 - 592	3202	Ser-32 to Ser-39, AR060: 41	AR089: 45, AR316: 43, AR060: 41		

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597	HDRAC68	608173	607	65 - 217	3204	<p>1, S0436: 1 and H0008: 1</p> <p>H0373: 7, L0471: 6, S0276: 6, S0114: 5, H0537: 5, H0524: 5, H0271: 4, H0525: 4, S0442: 3, S0358: 3, H0486: 3, H0156: 3, H0598: 3, H0634: 3, S0386: 3, S0354: 2, S0360: 2, H0052: 2, S0250: 2, H0272: 2, S0440: 2, H0523: 2, S0028: 2, H0445: 2, H0170: 1, L0613: 1, T0002: 1, S0040: 1, S0134: 1, L0808: 1, S0212: 1, H0346: 1, H0483: 1, H0669: 1, H0662: 1, S0376: 1, S0444: 1, S0046: 1, H0261: 1, S0222: 1, H0586: 1, H0587: 1, S0414: 1, H0069: 1, H0427: 1, H0575: 1, H0318: 1, H0581: 1, H0310: 1, H0009: 1, H0012: 1, H0620: 1, S0362: 1, H0051: 1, H0355: 1, H0375: 1, S0318: 1, S0214: 1, H0328: 1, H0428: 1, H0535: 1, H0553: 1, H0316: 1, S0036: 1, H0063: 1, H0087: 1, T0041: 1, H0429: 1, H0625: 1, H0538: 1, H0695: 1, L0803: 1, L0524: 1, S0374: 1, S0330: 1, H0539: 1, H0579: 1, H0696: 1, H0555: 1, L0742: 1, L0748: 1, L0740: 1, L0745: 1, L0746: 1, L0747: 1, L0687: 1, S0436: 1 and H0008: 1</p>	
598	HDSAC78	596810	608	11 - 109	3205	<p>L0749: 4, H0620: 2, L0769: 2, L0766: 2, H0547: 2, L0748: 2, H0265: 1, H0329: 1, L0717: 1, H0050: 1, H0024: 1, H0529: 1, L0764: 1, L0521: 1, L0794: 1, L0774: 1, L0775: 1, L0526: 1, L0783: 1, L0809: 1, L0665: 1, H0144: 1, S0380: 1, H0436: 1, L0747: 1, L0750: 1 and</p> <p>19qter</p>	

599	HDSAH37	603518	609	239 - 406	3206		H0445: 1. H0329: 1 and H0593: 1.	21q22.3	120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145
600	HDSAM57	834822	610	226 - 297	3207		H0329: 1 and S0216: 1.		
601	HDSAQ14	847054	611	208 - 357	3208	Gly-29 to Lys-49.	H0329: 1		
602	HDSAQ64	603519	612	351 - 440	3209		S0358: 1, H0329: 1, S0045: 1, H0024: 1, L0055: 1, H0316: 1, S0422: 1, L0794: 1, L0804: 1, H0658: 1, L0748: 1, L0751: 1, L0753: 1 and H0352: 1.		
603	HDSAP15	772712	613	976 - 1356	3210	Phe-83 to Ser-95, Glu-111 to Thr-124.	AR089: 8, AR316: 8, AR060: 7 L0748: 9, L0766: 7, L0747: 7, L0803: 5, L0439: 5, H0031: 4, H0529: 4, L0752: 4, S0003: 3, L0774: 3, L0666: 3, L0749: 3, L0777: 3, H0170: 2, H0587: 2, H0428: 2, S0422: 2, L0521: 2, L0635: 2, L0663: 2, H0648: 2, S0406: 2, H0436: 2, L0779: 2, L0731: 2, S0031: 2, S0424: 2, T0002: 1, H0341: 1, S0212: 1, H0664: 1, H0402: 1, H0329: 1, H0722: 1, S0045: 1, S0046: 1, H0619: 1, S0222: 1, H0441: 1, H0497: 1, H0486: 1, T0039: 1, H0013: 1, H0250: 1, H0635: 1, H0156: 1, H0318: 1, H0421: 1, H0309: 1, H0546: 1, H0009: 1, L0157: 1, H0566: 1, H0014: 1, H0266: 1, S0250: 1, S0214: 1, H0615: 1, H0688: 1, H0030: 1, H0644: 1, H0628: 1, L0455: 1, H0090: 1, H0591: 1, H0056:	4	

604	HDTAR39	847055	614	199 - 357	3211			1, H0623: 1, T0041: 1, H0641: 1, S0002: 1, S0426: 1, L0769: 1, L0372: 1, L0771: 1, L0773: 1, L0662: 1, L0522: 1, L0661: 1, L0659: 1, L0526: 1, L0809: 1, L0791: 1, L0664: 1, L0663: 1, H0144: 1, H0697: 1, L0438: 1, H0547: 1, H0689: 1, H0659: 1, H0670: 1, H0660: 1, S0330: 1, H0539: 1, S0380: 1, H0521: 1, S0390: 1, L0742: 1, L0751: 1, L0757: 1, L0599: 1, H0667: 1 and S0196: 1.		
605	HDTAS57	664482	615	62 - 214	3212			H0623: 4, L0748: 3, L0747: 3, L0749: 3, S0126: 2, L0750: 2, L0758: 2, S0358: 1, S0444: 1, H0486: 1, H0591: 1, H0056: 1, H0100: 1, S0426: 1, L0659: 1, L0666: 1, H0519: 1, L0757: 1 and H0543: 1.	3p13-q13.2	156845, 156845, 156845, 164500, 600151
606	HDTBP62	665417	616	203 - 316	3213	Met-1 to Lys-9, Arg-31 to Phe-37.		H0670: 1 and H0422: 1. L0740: 10, L0777: 9, L0748: 6, L0439: 5, L0759: 5, L0805: 3, L0749: 3, S0360: 2, H0412: 2, H0648: 2, L0754: 2, L0752: 2, L0755: 2, H0556: 1, H0686: 1, H0580: 1, H0486: 1, H0706: 1, S0346: 1, H0318: 1, S0474: 1, H0581: 1, H0543: 1, H0009: 1, H0565: 1, S0003: 1, H0428: 1, L0055: 1, T0069: 1, H0494: 1, S0440: 1, H0641: 1, H0646: 1, H0529: 1, L0769: 1, L0764: 1, L0773: 1, L0363: 1, L0767: 1, L0561: 1, L0803: 1, L0653: 1, L0659: 1, L0787: 1, L0665: 1, S0374: 1, S0328: 1, S0152: 1, S0350: 1, H0522: 1, L0743: 1.	19q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 173850, 207750, 248600, 258501

607	HDTBQ77	587295	617	348 - 452	3214		1, L0747: 1, L0731: 1 and H0423: 1. AR089: 7, AR316: 6, AR060: 5 H0486: 2, H0036: 1, L0666: 1, H0670: 1 and S0106: 1. H0392: 1 and H0486: 1.		
608	HDTDA48	809110	618	105 - 218	3215		S0438: 7, S0406: 7, L0659: 6, S0374: 6, S0354: 5, L0771: 4, S0404: 4, S0356: 3, S0358: 3, S0408: 3, H0431: 3, H0486: 3, H0510: 3, H0039: 3, H0641: 3, L0776: 3, L0666: 3, L0748: 3, S0376: 2, S0360: 2, S0278: 2, H0331: 2, H0090: 2, H0509: 2, L0769: 2, L0768: 2, L0649: 2, L0774: 2, L0775: 2, L0655: 2, H0547: 2, H0658: 2, H0521: 2, H0555: 2, L0744: 2, L0754: 2, L0745: 2, H0445: 2, H0583: 1, S0442: 1, H0580: 1, H0393: 1, H0549: 1, H0550: 1, H0587: 1, H0574: 1, H0632: 1, T0039: 1, L0021: 1, L0022: 1, H0036: 1, H0581: 1, S0324: 1, H0263: 1, H0204: 1, H0546: 1, H0199: 1, H0246: 1, H0355: 1, H0188: 1, H0288: 1, H0428: 1, H0604: 1, H0031: 1, H0617: 1, H0124: 1, S0036: 1, H0063: 1, H0059: 1, L0770: 1, L0646: 1, L0374: 1, L0764: 1, L0648: 1, L0521: 1, L0662: 1, L0651: 1, L0653: 1, L0606: 1, L0809: 1, H0660: 1, H0672: 1, S0328: 1, H0679: 1, S0104: 1, L0743: 1, L0750: 1, L0777: 1 and H0506: 1.		
609	HDTDE66	610074	619	223 - 450	3216	Gln-40 to Leu-54, Asn-58 to Thr-69.			
610	HDTDG75	799892	620	410 - 517	3217	Tyr-20 to Leu-35.			
611	HDTDS09	651320	621	443 - 520	3218		AR033: 29, AR275: 29,	7q11.22-	116860, 129900.

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180.05, 190900, 222800, 246900	7q31.33	AR273: 22, AR248: 21, AR185: 19, AR104: 19, AR186: 16, AR089: 16, AR231: 15, AR291: 14, AR060: 14, AR240: 13, AR316: 13, AR315: 12, AR280: 12, AR314: 11, AR183: 11, AR237: 11, AR244: 10, AR229: 10, AR238: 10, AR234: 10, AR184: 10, AR241: 9, AR226: 9, AR281: 9, AR247: 9, AR177: 9, AR269: 9, AR219: 9, AR292: 8, AR290: 8, AR282: 8, AR310: 8, AR274: 7, AR270: 7, AR268: 7, AR233: 7, AR313: 7, AR298: 7, AR218: 7, AR175: 7, AR243: 7, AR295: 7, AR271: 7, AR289: 7, AR096: 7, AR249: 7, AR284: 6, AR182: 6, AR061: 6, AR267: 6, AR198: 6, AR232: 6, AR202: 6, AR227: 6, AR246: 6, AR296: 6, AR192: 6, AR055: 6, AR204: 6, AR285: 5, AR253: 5, AR299: 5, AR293: 5, AR312: 5, AR206: 5, AR179: 5, AR039: 5, AR309: 5, AR286: 4, AR277: 4, AR263: 4, AR294: 4, AR300: 4, AR266: 4, AR256: 4, AR259: 3, AR265: 3, AR205: 3, AR052: 3, AR053: 3.
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612	HDTFF53	637591	622	19 - 48	3219				1, L0789: 1, L0663: 1, L0664: 1, H0547: 1, H0666: 1, H0648: 1, H0539: 1, S0378: 1, S0454: 1, S0270: 1, S0406: 1, H0436: 1, S0027: 1, L0746: 1, L0759: 1, S0434: 1, S0436: 1, H0136: 1 and L0698: 1.		
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613	HDTGW76	862012	623	156 - 269	3220		<p>1, H0580: 1, H0729: 1, S0045: 1, S0476: 1, H0351: 1, H0550: 1, S6014: 1, H0592: 1, H0586: 1, H0497: 1, H0574: 1, L0623: 1, H0485: 1, L0586: 1, H0250: 1, H0069: 1, H0156: 1, S0010: 1, S0346: 1, H0196: 1, H0251: 1, H0309: 1, H0263: 1, H0543: 1, H0024: 1, H0015: 1, H0373: 1, H0083: 1, H0375: 1, S0312: 1, H0428: 1, H0039: 1, H0622: 1, L0194: 1, L0483: 1, T0006: 1, H0553: 1, H0644: 1, H0673: 1, H0212: 1, H0316: 1, H0598: 1, H0264: 1, H0488: 1, H0412: 1, H0413: 1, H0059: 1, H0102: 1, H0100: 1, T0042: 1, H0494: 1, H0625: 1, S0438: 1, H0509: 1, H0132: 1, H0652: 1, S0142: 1, UNKN: 1, H0529: 1, L0520: 1, L0505: 1, L0640: 1, L0769: 1, L0637: 1, L5565: 1, L0373: 1, L0372: 1, L0648: 1, L0662: 1, L0767: 1, L0794: 1, L0774: 1, L0775: 1, L0806: 1, L0807: 1, L0657: 1, L0635: 1, L0526: 1, L5623: 1, L0532: 1, L0664: 1, L0665: 1, S0216: 1, S0310: 1, H0711: 1, H0690: 1, H0672: 1, S0378: 1, S0152: 1, H0696: 1, S0406: 1, H0555: 1, H0436: 1, H0576: 1, H0479: 1, H0627: 1, H0631: 1, S0027: 1, L0748: 1, L0745: 1, L0749: 1, L0750: 1, L0755: 1, H0444: 1, H0343: 1, S0394: 1, L0485: 1, S0196: 1, L0698: 1, S0460: 1, H0506: 1 and H0352: 1.</p> <p>1, L0754: 3, L0750: 3, L0766: 2, L0665: 2, H0486: 1, L0021: 1.</p>	2p13-p15	203800, 602404
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614	HDTGZ56	800756	624	250 - 360	3221	<p>1, H0251: 1, H0373: 1, H0375: 1, H0316: 1, H0413: 1, L0646: 1, L0764: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0378: 1, L0659: 1, L0666: 1, H0682: 1, L0747: 1, L0779: 1, L0777: 1, S0276: 1 and H0422: 1.</p> <p>AR252: 8, AR089: 4, AR171: 4, AR263: 4, AR060: 4, AR192: 4, AR195: 4, AR245: 3, AR221: 3, AR225: 3, AR294: 3, AR316: 3, AR170: 3, AR246: 3, AR282: 3, AR212: 3, AR164: 2, AR277: 2, AR180: 2, AR169: 2, AR201: 2, AR224: 2, AR205: 2, AR232: 2, AR285: 2, AR290: 2, AR271: 2, AR185: 2, AR096: 2, AR179: 1, AR215: 1, AR293: 1, AR261: 1, AR266: 1, AR218: 1, AR312: 1, AR213: 1 H0486: 1</p>		
615	HDTLZ85	886163	625	114 - 209	3222	<p>AR089: 47, AR316: 35, AR060: 25 H0457: 8, L0766: 7, H0486: 5, L0769: 5, L0779: 4, L0599: 4, H0641: 3, L0662: 3, L0809: 3, H0547: 3, L0748: 3, L0439: 3, L0777: 3, H0445: 3, L0589: 3, H0542: 3, H0543: 3, H0423: 3, H0341: 2, H0497: 2, H0635: 2, H0575: 2, H0766: 2, H0622: 2, S0002: 2, S0426: 2, L0803: 2, L0774: 2, L0517: 2, L0666: 2, L0665: 2, H0519: 2, H0555: 2.</p>		

616	HDTIM39	886164	626	401 - 658	3223	Set-62 to Gly-75,	<p>2, L0756: 2, L0731: 2, L0758: 2, L0591: 2, L0593: 2, L0362: 2, H0713: 1, H0717: 1, H0650: 1, H0657: 1, H0656: 1, S0001: 1, H0663: 1, H0402: 1, H0305: 1, H0125: 1, S0356: 1, S0360: 1, H0580: 1, S0045: 1, L0717: 1, H0549: 1, H0550: 1, S0222: 1, H0592: 1, H0586: 1, H0331: 1, H0485: 1, L0586: 1, H0013: 1, S0280: 1, H0156: 1, L0040: 1, H0051: 1, H0594: 1, H0271: 1, S0214: 1, H0328: 1, H0615: 1, H0428: 1, H0264: 1, H0560: 1, S0144: 1, L0369: 1, L0640: 1, L0770: 1, L0761: 1, L0667: 1, L0373: 1, L0372: 1, L0765: 1, L0794: 1, L0649: 1, L0804: 1, L0375: 1, L0518: 1, L0789: 1, L0663: 1, S0216: 1, S0374: 1, H0593: 1, H0689: 1, H0682: 1, H0684: 1, H0670: 1, H0660: 1, S0152: 1, H0521: 1, H0522: 1, H0696: 1, H0436: 1, S0027: 1, S0032: 1, L0745: 1, H0667: 1, S0192: 1 and H0422: 1.</p>	3p24.3-p22.1	<p>154705, 182280, 190160, 227646, 261510, 600163, 601154</p>
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617	HDTK/29	840023	627	112 - 735	3224	Gln-113 to Phe-118.	1, L0761: 1, L0772: 1, L0372: 1, L0646: 1, L0374: 1, L0648: 1, L0363: 1, L0768: 1, L0766: 1, L0775: 1, L0375: 1, L0652: 1, L0657: 1, L0656: 1, L0518: 1, L0647: 1, H0698: 1, H0690: 1, H0435: 1, H0660: 1, H0666: 1, H0672: 1, S0328: 1, H0518: 1, H0522: 1, H0555: 1, H0187: 1, H0626: 1, H0627: 1, S0314: 1, S0027: 1, S0028: 1, L0753: 1, L0591: 1, L0592: 1, L0593: 1, L0595: 1, L0361: 1, H0667: 1, H0542: 1, H0423: 1, H0422: 1, S0424: 1 and S0458: 1.		
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618	HDUAB12	809111	628	294 - 395	3225	<p>AR300: 38, AR177: 38, AR268: 37, AR265: 33, AR263: 28, AR299: 27, AR096: 26, AR382: 26, AR313: 26, AR310: 26, AR247: 25, AR283: 24, AR186: 16, AR277: 15, AR240: 15, AR312: 10, AR309: 10, AR213: 7, AR053: 7, AR052: 6, AR241: 2, AR205: 2, AR243: 2 L0745: 7, H0486: 4, L0764: 3, L0774: 3, L0779: 3, H0543: 3, H0130: 2, L0766: 2, L0803: 2, H0666: 2, H0672: 2, L0746: 2, L0755: 2, L0758: 2, L0596: 2, T0049: 1, H0657: 1, H0662: 1, S0338: 1, S0360: 1, H0580: 1, S0046: 1, S0222: 1, H0586: 1, H0013: 1, L0021: 1, H0251: 1, H0266: 1, S0003: 1, S0214: 1, H0428: 1, H0535: 1, H0644: 1, H0674: 1, H0598: 1, H0038: 1, H0616: 1, H0268: 1, H0509: 1, L0371: 1, L0770: 1, L0637: 1, L0372: 1, L0662: 1, L0768: 1, L0550: 1, L0775: 1, L0375: 1, L0523: 1, L0542: 1, L0526: 1, L0809: 1, L0663: 1, S0126: 1, H0435: 1, H0670: 1, H0539: 1, S0380: 1, H0522: 1, S0044: 1, L0740: 1, L0754: 1, L0750: 1, L0759: 1, H0445: 1 and L0603: 1.</p>		18p11.2	202200
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619	HDUAD68	607564	629	35 - 139	3226				H0579: 1, S0404: 1, S0406: 1, L0740: 1, L0754: 1, L0771: 1, L0759: 1, S0308: 1, L0605: 1, L0581: 1, L0608: 1, L0601: 1, H0543: 1, S0412: 1, S0424: 1 and H0506: 1. L0766: 2, H0579: 1 and L0779: 1.
620	HE2AC74	859609	630	1869 - 1964	3227				AR089: 17, AR316: 16, AR060: 16 L0754: 17, L0740: 10, L0747: 9, L0438: 8, L0439: 8, S0212: 7, S0418: 7, L0749: 7, S0192: 7, L0731: 6, S0356: 5, S0440: 5, L0666: 5, L0748: 5, L0757: 5, H0716: 4, L0775: 4, S0374: 4, L0756: 4, L0755: 4, S0442: 3, S0444: 3, S0360: 3, H0586: 3, H0486: 3, H0013: 3, S0003: 3, L0774: 3, L0659: 3, H0539: 3, S0378: 3, H0696: 3, L0752: 3, H0445: 3, S0420: 2, S0354: 2, S0358: 2, H0411: 2, H0431: 2, H0407: 2, H0050: 2, L0471: 2, S0250: 2, H0328: 2, H0124: 2, S0210: 2, L0764: 2, L0771: 2, L0662: 2, L0653: 2, L0663: 2, L0665: 2, S0126: 2, H0638: 2, L0751: 2, L0779: 2, L0777: 2, L0759: 2, L0590: 2, L0608: 2, L0362: 2, S0026: 2, H0170: 1, H0171: 1, H0222: 1, H0685: 1, S0342: 1, T0049: 1, H0675: 1, S0468: 1, H0592: 1, H0587: 1, H0574: 1, S0280: 1, H0575: 1, H0036: 1, H0590: 1, S0010: 1, T0048: 1, S0049: 1, H0597: 1, H0545: 1, H0024: 1, H0061: 1, H0266: 1, H0188: 1, H0687: 1, H0039: 1, H0622: 1

621	HE2AC74	901343	631	3022 - 3117	3228	<p>H0031: 1, H0553: 1, H0628: 1, H0212: 1, H0388: 1, H0163: 1, H0038: 1, H0268: 1, H0412: 1, H0494: 1, S0150: 1, H0646: 1, H0652: 1, L0770: 1, L0646: 1, L0768: 1, L0364: 1, L0388: 1, L0527: 1, L0658: 1, L0539: 1, H0144: 1, L0565: 1, H0547: 1, H0666: 1, H0648: 1, H0672: 1, S0380: 1, S0044: 1, S0146: 1, H0631: 1, H0345: 1, S3012: 1, S3014: 1, S0027: 1, S0028: 1, S0434: 1, S0436: 1, L0588: 1, L0589: 1, L0605: 1, L0599: 1, L0593: 1, H0653: 1, H0665: 1, S0194: 1 and S0424: 1.</p>		
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622	HE2AC75	600397	632	14 - 115	3229				H0685: 1, S0342: 1, T0049: 1, H0675: 1, S0468: 1, H0592: 1, H0587: 1, H0574: 1, S0280: 1, H0575: 1, H0036: 1, H0590: 1, S0010: 1, T0048: 1, S0049: 1, H0597: 1, H0545: 1, H0024: 1, H0061: 1, H0266: 1, H0188: 1, H0687: 1, H0039: 1, H0622: 1, H0031: 1, H0553: 1, H0628: 1, H0212: 1, H0388: 1, H0163: 1, H0038: 1, H0268: 1, H0412: 1, H0494: 1, S0150: 1, H0646: 1, H0652: 1, L0770: 1, L0646: 1, L0768: 1, L0364: 1, L0388: 1, L0527: 1, L0658: 1, L0559: 1, H0144: 1, L0565: 1, H0547: 1, H0666: 1, H0648: 1, H0672: 1, S0380: 1, S0044: 1, S0146: 1, H0631: 1, H0345: 1, S0312: 1, S3014: 1, S0027: 1, S0028: 1, S0434: 1, S0436: 1, L0588: 1, L0589: 1, L0605: 1, L0599: 1, L0593: 1, H0653: 1, H0665: 1, S0194: 1 and S0424: 1, H0170: 1
623	HE2A194	772542	633	144 - 311	3230	11e-32 to Arg-41.			AR089: 31, AR316: 25, AR060: 20, L0754: 18, L0731: 18, S0003: 5, L0143: 4, H0590: 3, H0553: 3, L0803: 3, S0354: 2, S0358: 2, S0422: 2, L0766: 2, H0648: 2, L0779: 2, L0777: 2, L0735: 2, L0605: 2, L0599: 2, H0170: 1, H0580: 1, H0497: 1, H0013: 1, L0021: 1, H0098: 1, H0083: 1, H0375: 1, S0214: 1, H0111: 1, H0509: 1, S0002: 1, L0598: 1, L0794: 1, L0659: 1, L0663: 1, H0593: 1, H0518: 1, H0678: 1, L0748: 1, L0740: 1,

624	HE2AT61	834039	634	487 - 711	3231	Phc-26 to His-33.	<p>L0750: 1, L0780: 1 and S0434: 1.</p> <p>L0805: 6, L0766: 5, L0758: 5, L0803: 4, L0794: 3, L0439: 3, L0774: 2, L0776: 2, L0517: 2, L0748: 2, L0751: 2, L0777: 2, L0731: 2, L0608: 2, L0594: 2, H0170: 1, H0171: 1, H0657: 1, H0656: 1, S0442: 1, H0369: 1, S0222: 1, H0574: 1, H0632: 1, T0040: 1, L0021: 1, H0575: 1, S0010: 1, H0318: 1, H0046: 1, L0126: 1, S0051: 1, S6028: 1, L0142: 1, H0628: 1, H0090: 1, H0038: 1, H0269: 1, H0100: 1, S0438: 1, H0633: 1, L0369: 1, L0637: 1, L3905: 1, L0761: 1, L0768: 1, L0649: 1, L0804: 1, L0652: 1, L0633: 1, L0639: 1, L0809: 1, L0788: 1, L0789: 1, L0438: 1, H0547: 1, H0539: 1, S0152: 1, H0521: 1, L0750: 1, L0756: 1, L0779: 1, H0445: 1 and L0485: 1.</p>				
625	HE2AX36	812337	635	34 - 54	3232		<p>H0457: 6, L0766: 6, L0758: 5, H0581: 3, H0533: 3, L0763: 3, L0439: 3, L0779: 3, L0731: 3, H0423: 3, S0358: 2, L0598: 2, L0662: 2, L0768: 2, L0794: 2, L0665: 2, S0126: 2, L0754: 2, L0750: 2, L0777: 2, L0485: 2, L0362: 2, S0026: 2, H0170: 2, S0114: 1, H0638: 1, H0125: 1, S0418: 1, H0574: 1, H0486: 1, S0280: 1, L0021: 1, H0590: 1, H0421: 1, H0204: 1, H0123: 1, S0003: 1, T0023: 1, H0163: 1, H0634: 1, H0529: 1, L0761: 1, L0646: 1, L0641: 1, L0804: 1, L0633: 1, L0657: 1, L0639: 1</p>	12q14			<p>123829, 147570, 181430, 252940, 264700, 600808, 601284, 601769, 601769, 602116</p>

626	HE2AV96	796800	636	1394 - 1432	3233	<p>1, L0666: 1, H0144: 1, S0374: 1, H0672: 1, H0521: 1, H0522: 1, H0436: 1, L0743: 1, L0752: 1, H0667: 1, S0196: 1 and S0452: 1.</p> <p>AR089: 32, AR316: 28, AR060: 24 L0599: 84, L0747: 16, S0192: 11, H0616: 9, L0731: 9, L0776: 8, L0766: 7, H0038: 6, L0751: 6, L0439: 5, L0754: 5, L0758: 5, S0420: 4, H0318: 4, H0031: 4, L0659: 4, L0756: 4, L0594: 4, H0556: 3, H0305: 3, S0046: 3, T0039: 3, T0048: 3, S0440: 3, L0774: 3, L0744: 3, L0748: 3, H0445: 3, H0171: 2, H0265: 2, H0483: 2, H0619: 2, S0222: 2, H0333: 2, H0331: 2, H0618: 2, H0581: 2, H0050: 2, H0083: 2, H0428: 2, H0673: 2, L0455: 2, H0591: 2, H0551: 2, H0264: 2, S0344: 2, L0769: 2, L0662: 2, L0804: 2, L0657: 2, L0809: 2, L0663: 2, L0664: 2, H0520: 2, H0547: 2, H0670: 2, H0648: 2, S0330: 2, H0518: 2, S0104: 2, S0206: 2, L0740: 2, L0757: 2, L0588: 2, L0362: 2, H0543: 2, H0624: 1, H0170: 1, T0002: 1, H0717: 1, H0295: 1, T0049: 1, S0134: 1, H0657: 1, H0656: 1, H0341: 1, H0255: 1, H0638: 1, S0418: 1, S0356: 1, S0358: 1, S0376: 1, S0444: 1, S0007: 1, H0208: 1, S0045: 1, S0476: 1, S0278: 1, H0549: 1, H0431: 1, H0432: 1, H0409: 1, H0602: 1, H0497: 1, H0485: 1, H0486: 1, H0013: 1, H0244:</p>
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627	HE2BD72	600349	637	217 - 396	3234	Arg-25 to Tyr-30, Pro-51 to Leu-59.	AR089: 25, AR316: 19, AR060: 13 H0031: 3, H0624: 1, H0171: 1, H0208: 1, H0592: 1, H0013: 1, S0346: 1, H0052: 1, H0135: 1, H0591: 1, S0426: 1, L0378: 1, H0593: 1 and L0753: 1, L0754: 13, L0752: 13, L0742: 10, S0360: 9, L0758: 9, L0483: 6, L0771: 6, L0747: 6, L0749: 6, L0750: 6, S0003:	1, H0427: 1, H0156: 1, H0599: 1, H0590: 1, T0001: 1, H0597: 1, H0327: 1, H0545: 1, H0046: 1, L0118: 1, L0471: 1, H0620: 1, H0024: 1, S0362: 1, H0373: 1, S0051: 1, S0628: 1, H0188: 1, H0687: 1, H0553: 1, H0628: 1, H0674: 1, H0708: 1, H0068: 1, H0598: 1, H0090: 1, H0269: 1, H0413: 1, T0069: 1, T0004: 1, L0370: 1, H0625: 1, S0144: 1, S0002: 1, L0598: 1, L0640: 1, L0763: 1, L0770: 1, L0646: 1, L0363: 1, L0768: 1, L0794: 1, L0386: 1, L0650: 1, L0655: 1, L0807: 1, L0542: 1, L0783: 1, L0382: 1, L0541: 1, L0543: 1, L0790: 1, L0666: 1, S0428: 1, S0053: 1, H0144: 1, S0374: 1, H0723: 1, H0593: 1, S0126: 1, H0689: 1, H0435: 1, H0658: 1, S0380: 1, H0710: 1, S0152: 1, H0696: 1, S0044: 1, S0406: 1, H0187: 1, H0478: 1, H0627: 1, S3012: 1, S0390: 1, L0749: 1, L0779: 1, L0759: 1, S0031: 1, S0434: 1, S0436: 1, L0581: 1, S0042: 1, S0598: 1 and L0600: 1.		
628	HE2BH50	847056	638	129 - 203	3235			1p31	180069, 180069, 180069, 201450, 248610, 600309, 601676, 602522	

095003-09101

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629	HE2CB53	581043	639	121 - 237	3236	His-31 to Gln-38.	1, L0387: 1, L0649: 1, L0661: 1, L0629: 1, L0788: 1, L0792: 1, H0547: 1, H0519: 1, H0593: 1, H0689: 1, H0711: 1, H0660: 1, H0648: 1, H0672: 1, H0710: 1, H0518: 1, H0521: 1, H0522: 1, H0696: 1, S0190: 1, H0694: 1, H0436: 1, L0777: 1, L0780: 1, L0757: 1, S0031: 1, H0444: 1, H0445: 1, H0595: 1, S0434: 1, L0589: 1, L0605: 1, L0592: 1, L0593: 1, L0601: 1, H0667: 1, H0423: 1 and H0506: 1. L0747: 6, L0803: 4, H0656: 2, S0358: 2, H0421: 2, H0040: 2, L0770: 2, L0662: 2, L0766: 2, L0655: 2, L0789: 2, H0144: 2, L0750: 2, L0731: 2, H0171: 1, H0686: 1, S0144: 1, H0263: 1, H0597: 1, L0055: 1, H0090: 1, H0494: 1, H0647: 1, S0422: 1, H0529: 1, L0774: 1, L0657: 1, L0634: 1, L0526: 1, L0518: 1, L0666: 1, L0665: 1, H0658: 1, H0670: 1, H0648: 1, H0696: 1, L0748: 1, L0751: 1, L0754: 1, L0777: 1, L0758: 1, H0422: 1 and S0424: 1.	11		
630	HE2CC17	566806	640	70 - 168	3237		AR060: 6, AR316: 5, AR089: 4 H0171: 1 and S0015: 1.			
631	HE2CJ53	637592	641	123 - 362	3238	Glu-69 to Val-75.	AR089: 25, AR316: 21, AR060: 18 L0803: 8, L0748: 8, L0794: 5, L0665: 5, L0749: 5, L0438: 4, L0777: 4, L0752: 4, L0731: 4, L0758: 4, H0013: 3, L0157: 3, L0483: 3, H0169: 3, H0591: 3, L0766: 3, L0805: 3, L0653: 3, L0759: 3, S0436: 3, H0556: 3.	14q22.1-q24.1		112262, 182600, 182870, 182870, 600225, 600225

632	HE2CK47	834924	642	960 - 1127	3239	2, S0045: 2, H0619: 2, H0392: 2, H0156: 2, H0318: 2, H0510: 2, H0264: 2, S0438: 2, L0598: 2, L0764: 2, L0659: 2, S0428: 2, H0521: 2, L0743: 2, L0751: 2, L0750: 2, L0779: 2, L0591: 2, L0592: 2, L0599: 2, S0242: 2, H0624: 1, H0171: 1, L0615: 1, S0114: 1, S0430: 1, H0650: 1, S0444: 1, H0580: 1, S0046: 1, H0351: 1, H0592: 1, H0586: 1, H0497: 1, H0331: 1, H0574: 1, L0021: 1, H0036: 1, H0581: 1, H0231: 1, H0309: 1, H0596: 1, H0545: 1, H0014: 1, H0051: 1, S0051: 1, S6028: 1, H0687: 1, S0003: 1, H0428: 1, H0622: 1, H0617: 1, L0055: 1, H0032: 1, S0036: 1, H0135: 1, H0909: 1, H0272: 1, H0494: 1, H0334: 1, H0560: 1, S0344: 1, H0538: 1, S0422: 1, S0426: 1, L0763: 1, L0646: 1, L0662: 1, L0774: 1, L0806: 1, L0776: 1, L0527: 1, L0493: 1, L0647: 1, L0790: 1, L0666: 1, L0664: 1, H0144: 1, S0374: 1, H0547: 1, H0659: 1, H0670: 1, H0648: 1, H0672: 1, H0539: 1, H0518: 1, S0044: 1, H0555: 1, S0032: 1, L0439: 1, L0745: 1, S0011: 1, H0667: 1, S0192: 1, S0276: 1, S0196: 1, H0542: 1, H0423: 1 and L0600: 1.	
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633	HE2CM34	603185	643	175 - 189	3240				2, L0747: 2, L0755: 2, L0757: 2, L0758: 2, S0276: 2, H0171: 1, S0280: 1, H0581: 1, H0135: 1, L0763: 1, L0639: 1, L0794: 1, L0803: 1, L0809: 1, H0144: 1, H0689: 1, L0751: 1, L0749: 1, S0196: 1 and H0008: 1. L0717: 5, L0439: 5, L0794: 4, L0803: 4, S0222: 3, L0770: 3, L0766: 3, L0438: 3, L0779: 3, L0777: 3, L0755: 3, H0624: 2, L0761: 2, L0764: 2, L0805: 2, L0809: 2, L0519: 2, L0666: 2, H0659: 2, H0436: 2, L0754: 2, L0747: 2, L0750: 2, L0756: 2, L0758: 2, L0588: 2, L0599: 2, L0604: 2, H0171: 1, H0657: 1, H0663: 1, H0305: 1, S0420: 1, S0376: 1, H0580: 1, H0639: 1, H0441: 1, H0497: 1, L0021: 1, H0575: 1, S0010: 1, S0346: 1, H0318: 1, S0474: 1, H0194: 1, T0110: 1, H0123: 1, T0003: 1, H0024: 1, S6028: 1, H0266: 1, H0328: 1, H0553: 1, H0090: 1, S0112: 1, S0422: 1, H0529: 1, L0501: 1, L5575: 1, L0667: 1, L0642: 1, L0644: 1, L0521: 1, L0767: 1, L0650: 1, L0774: 1, L0806: 1, L0655: 1, L0657: 1, L0659: 1, L0792: 1, L0663: 1, L0664: 1, H0144: 1, H0520: 1, H0683: 1, H0648: 1, H0672: 1, H0539: 1, S0044: 1, H0555: 1, L0748: 1, L0740: 1, L0745: 1, L0749: 1, L0786: 1, L0780: 1, L0591: 1, S0011: 1, H0665: 1, S0276: 1, H0542: 1, H0543: 1, H0423: 1 and H0422: 1.	1 per-pl 5.5
634	HE2DC46	731958	644	132 - 224	3241				H0170: 1	

638	HE2DY25	844237	648	493 - 597	3245	<p>H0038: 2, H0551: 2, L0564: 2, S0422: 2, L0770: 2, L0646: 2, L0771: 2, L0766: 2, L0649: 2, L0653: 2, L0659: 2, H0539: 2, L0740: 2, L0747: 2, L0749: 2, L0753: 2, L0757: 2, S0436: 2, L0584: 2, L0599: 2, L0595: 2, H0686: 1, S0040: 1, H0295: 1, S0212: 1, H0255: 1, H0661: 1, S0444: 1, S0360: 1, H0580: 1, H0729: 1, S0046: 1, L0717: 1, S0278: 1, S0222: 1, H0587: 1, H0333: 1, H0427: 1, H0156: 1, H0575: 1, H0004: 1, H0253: 1, H0545: 1, H0046: 1, H0045: 1, H0051: 1, S0388: 1, H0594: 1, H0428: 1, H0673: 1, H0169: 1, H0674: 1, H0135: 1, H0040: 1, H0268: 1, L0351: 1, T0041: 1, S0382: 1, S0306: 1, S0440: 1, H0509: 1, S0144: 1, S0426: 1, H0743: 1, L0369: 1, L0638: 1, L0764: 1, L0765: 1, L0768: 1, L0388: 1, L0774: 1, L0657: 1, L5623: 1, L0790: 1, L0663: 1, L0664: 1, H0144: 1, L0438: 1, H0519: 1, H0648: 1, H0521: 1, H0522: 1, S0013: 1, H0436: 1, S3014: 1, S0027: 1, L0751: 1, L0779: 1, H0543: 1 and L0600: 1</p>	
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639	HE2EE80	847057	649	181 - 315	3246	L0754: 4, L0598: 2, L0803: 1	

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								H0170: 1 L0604; 10, L0485; 9, L0622; 3, L0520; 3, L0809; 3, H0170; 2, H0599; 2, L0471; 2, S0366; 2, L0791; 2, S0330; 2, L0747; 2, L0750; 2, L0777; 2, L0759; 2, H0624; 1, H0171; 1, H0196; 1, H0373; 1, S0364; 1, L0803; 1, L0375; 1, L0526; 1, H0696; 1, L0748; 1, L0749; 1, L0779; 1 and L0731; 1.	1p 4q22	103720, 157147, 163890, 173910, 248510, 252500, 252500		
640	HE2EH45	581520	650	213 - 263	3247							
641	HE2FE89	780314	651	117 - 323	3248							
642	HE2FR49	714456	652	96 - 212	3249	Met-1 to Gly-9,		H0486; 2, H0171; 1, H0657; 1, S0360; 1, H0587; 1, H0013; 1, H0318; 1, H0688; 1, L0793; 1, L0748; 1, L0439; 1 and L0759; 1.				
643	HE2GB19	566808	653	374 - 463	3250			H0585; 14, L0761; 6, L0751; 5, H0141; 4, L0769; 4, H0620; 3, H0135; 3, L0747; 3, L0779; 3, S0420; 2, H0441; 2, S0049; 2, H0052; 2, H0012; 2, H0688; 2, H0102; 2, L0770; 2, L0638; 2, L0665; 2, H0547; 2, S0126; 2, H0670; 2, S0380; 2, L0748; 2, L0439; 2, L0749; 2, L0750; 2, S0436; 2, L0595; 2, H0170; 1, H0171; 1, S0040; 1, H0717; 1, H0341; 1, S0029; 1, H0254; 1, H0255; 1, S0418; 1, S0444; 1, S0476; 1, H0406; 1, H0550; 1, S0222; 1, H0370; 1, H0587; 1, H0244; 1, H0427; 1, H0581; 1, H0546; 1, H0086; 1, H0566; 1, H0024; 1, H0200; 1, H0051; 1, T0010; 1, H0292; 1, S0364; 1, S0036; 1, H0551; 1, S0038;				

644	HE2GO81	688043	654	79 - 111	3251				1, S0386: 1, H0494: 1, S0422: 1, L5565: 1, L5566: 1, L0800: 1, L0771: 1, L0662: 1, L0363: 1, L0364: 1, L0766: 1, L0561: 1, L0522: 1, L0804: 1, L0774: 1, L0375: 1, L0651: 1, L0805: 1, L0776: 1, L0655: 1, L0659: 1, L0789: 1, L0793: 1, L0666: 1, H0144: 1, H0689: 1, H0682: 1, H0658: 1, S0328: 1, H0539: 1, H0521: 1, S0404: 1, S0027: 1, S0028: 1, L0741: 1, L0777: 1, L0731: 1, L0758: 1, L0597: 1, L0581: 1, S0458: 1, S0460: 1 and S0396: 1	2p14-q14.3	203800
645	HE2HB61	798113	655	154 - 249	3252				AR060: 5, AR316: 4, AR089: 4 H0651: 6, L0745: 4, S0358: 3, L0794: 3, L0749: 3, S0003: 2, L0766: 2, L0803: 2, H0518: 2, L0485: 2, H0171: 1, H0125: 1, S0354: 1, S0444: 1, S0360: 1, S0410: 1, H0600: 1, H0586: 1, H0497: 1, H0013: 1, H0427: 1, H0599: 1, L0471: 1, H0024: 1, H0179: 1, L0455: 1, H0551: 1, S0422: 1, L0773: 1, L0804: 1, L0650: 1, L0666: 1, S0216: 1, H0547: 1, H0519: 1, H0670: 1, S0328: 1, H0478: 1, L0748: 1, L0751: 1, L0754: 1, L0746: 1, L0755: 1, H0445: 1, S0242: 1, H0543: 1, H0423: 1 and H0506: 1		
646	HE2HB64	695713	656	225 - 335	3253				AR089: 78, AR316: 58, AR060: 40 H0170: 1 S0126: 6, H0046: 4, S0003: 3, L0794: 3, L0766: 3, L0439: 3, L0747: 3, L0759: 3, S0278: 1	8p22-q21.13	148370, 238600, 238600, 238600, 238600, 600143,

647	HE2HF76	637594	657	111 - 239	3254		2, L0805; 2, L0740; 2, L0745; 2, L0755; 2, L0595; 2, H0624; 1, H0170; 1, S0116; 1, H0341; 1, H0638; 1, S0420; 1, S0442; 1, S0358; 1, H0437; 1, H0574; 1, H0036; 1, H0581; 1, L0040; 1, H0457; 1, H0373; 1, S0214; 1, H0039; 1, H0031; 1, H0598; 1, H0090; 1, H0616; 1, H0551; 1, H0560; 1, H0646; 1, S0426; 1, L0769; 1, L0662; 1, L0803; 1, L0776; 1, L0438; 1, H0659; 1, H0658; 1, H0648; 1, S0152; 1, H0521; 1, H0522; 1, L0780; 1, L0758; 1, S0436; 1 and S0242; 1.		601385, 602629
648	HE2ID09	815657	658	1331 - 1402	3255		S0406; 3, L0759; 3, H0170; 2, H0457; 2, L0646; 2, L0777; 2, H0051; 1, H0428; 1, H0032; 1, H0695; 1, L0763; 1, L0641; 1, H0547; 1, H0696; 1 and L0439; 1.		
649	HE2IE66	830436	659	861 - 905	3256		AR060; 6, AR316; 4, AR089; 2 H0170; 1 and L0748; 1. L0438; 7, L0439; 6, L0747; 4, L0005; 3, S0360; 3, H0547; 3, S0222; 2, L0105; 2, S0002; 2, S0426; 2, L0794; 2, L0659; 2, L0664; 2, L0754; 2, L0758; 2, H0506; 2, H0170; 1, H0171; 1, S0212; 1, H0580; 1, H0453; 1, H0069; 1, H0098; 1, S0010; 1, H0581; 1, H0263; 1, H0009; 1, L0471; 1, H0099; 1, S0003; 1, H0039; 1, S0036; 1, H0090; 1, H0591; 1, S0422; 1, L0763; 1, L0638; 1, L0372; 1, L0646; 1, L0773; 1, L0662; 1, L0766; 1, L0649; 1, L0803; 1, L0804;	15	

650	HE2NW57	638615	660	101 - 457	3257	Leu-47 to Gly-57, Pro-60 to Asn-70, Gln-77 to Glu-82, Arg-102 to Arg-108.	1, L0651: 1, L0784: 1, L0776: 1, L0647: 1, S0052: 1, H0144: 1, H0682: 1, H0659: 1, H0521: 1, H0555: 1, L0742: 1, L0750: 1, L0756: 1, H0445: 1, S0434: 1 and S0452: 1. AR060: 9, AR316: 8, AR089: 8 H0170: 1 and L0589: 1.			
651	HE2OA95	637595	661	1224 - 1331	3258		AR233: 26, AR216: 25, AR089: 24, AR224: 23, AR222: 22, AR214: 22, AR215: 21, AR308: 21, AR210: 21, AR272: 21, AR221: 19, AR235: 18, AR211: 17, AR261: 17, AR225: 17, AR309: 17, AR217: 16, AR311: 16, AR172: 16, AR196: 16, AR168: 16, AR274: 15, AR169: 15, AR171: 15, AR199: 15, AR316: 15, AR188: 14, AR170: 14, AR264: 13, AR295: 12, AR312: 11, AR285: 11, AR165: 11, AR236: 11, AR189: 11, AR247: 11, AR164: 11, AR263: 11, AR166: 10, AR219: 10, AR161: 10, AR162: 10, AR200: 10, AR297: 9, AR163: 9, AR293: 9, AR218: 9, AR288: 9, AR262: 9, AR296: 9, AR060: 8, AR191: 8, AR291: 8, AR181: 8, AR203: 8, AR177: 8, AR255: 7, AR275: 7, AR231: 7, AR096: 7.	2q32.3		600238, 602087

652	HE20C39	587266	662	79 - 84	3259	<p>AR190: 7, AR313: 7, AR240: 7, AR174: 6, AR290: 6, AR287: 6, AR173: 6, AR175: 6, AR286: 6, AR183: 5, AR270: 5, AR269: 5, AR267: 5, AR238: 5, AR282: 5, AR239: 5, AR294: 5, AR179: 5, AR289: 5, AR256: 5, AR288: 5, AR257: 5, AR104: 4, AR061: 4, AR266: 4, AR230: 4, AR178: 4, AR299: 4, AR234: 4, AR176: 4, AR232: 4, AR185: 4, AR238: 4, AR300: 4, AR229: 4, AR237: 3, AR180: 3, AR277: 3, AR260: 3, AR226: 3, AR233: 3, AR227: 3, AR182: 3, AR228: 2, AR033: 2, AR055: 2, AR197: 2, AR195: 2, AR205: 1, AR201: 1, L0005: 4, L0439: 4, H0013: 3, H0674: 3, H0144: 3, H0170: 2, L0157: 2, L0435: 2, L0540: 2, L0438: 2, L0756: 2, L0759: 2, S0045: 1, H0599: 1, H0178: 1, H0572: 1, H0050: 1, H0024: 1, H0051: 1, S0028: 1, L0142: 1, H0673: 1, H0616: 1, H0551: 1, H0623: 1, L0809: 1, L0666: 1, H0520: 1, H0547: 1, H0519: 1, S0126: 1, H0539: 1, H0696: 1, H0694: 1, L0742: 1, L0777: 1, L0758: 1, L0592: 1 and L0595: 1.</p>
						<p>S0192: 3 and H0170: 1.</p>

653	HE2PB61	847379	663	19 - 90	3260	<p>AR251: 36, AR274: 24, AR263: 17, AR265: 17, AR310: 16, AR273: 16, AR313: 15, AR053: 15, AR309: 13, AR312: 13, AR218: 12, AR052: 12, AR243: 11, AR096: 11, AR213: 11, AR219: 11, AR314: 10, AR247: 10, AR271: 10, AR315: 9, AR089: 9, AR266: 9, AR280: 9, AR248: 9, AR299: 8, AR282: 8, AR253: 8, AR290: 8, AR184: 7, AR316: 7, AR283: 7, AR240: 7, AR275: 7, AR268: 7, AR177: 6, AR256: 6, AR175: 6, AR289: 6, AR291: 6, AR285: 6, AR267: 6, AR060: 6, AR182: 6, AR292: 6, AR281: 6, AR249: 6, AR183: 6, AR286: 5, AR186: 5, AR284: 5, AR295: 5, AR293: 5, AR270: 5, AR296: 5, AR185: 4, AR192: 4, AR104: 4, AR205: 4, AR269: 4, AR277: 4, AR055: 4, AR258: 4, AR226: 4, AR039: 3, AR294: 3, AR232: 3, AR298: 3, AR231: 3, AR033: 3, AR259: 3, AR198: 3, AR061: 3, AR237: 3, AR229: 3, AR238: 3, AR300: 3, AR234: 2, AR227: 2, AR233: 2, AR179: 2,</p>
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654	HE2PI43	847380	664	69 - 410	3261		AR204: 2, AR206: 1, AR244: 1 L0764: 3, H0170: 2, S0354: 2, L0775: 2, L0517: 2, L0665: 2, H0144: 2, S0328: 2, H0171: 1, S0444: 1, H0411: 1, T0040: 1, H0013: 1, L0105: 1, H0052: 1, H0327: 1, H0188: 1, L0627: 1, L0662: 1, L0375: 1, L0653: 1, L0384: 1, S0432: 1, L0743: 1, L0747: 1, L0779: 1, L0731: 1 and L0759: 1.		20	
							L0794: 7, L0777: 6, L0438: 5, L0791: 3, L0439: 3, S0408: 2, L0769: 2, L0363: 2, L0768: 2, L0803: 2, L0805: 2, L0657: 2, L0809: 2, L0666: 2, S0328: 2, L0748: 2, L0736: 2, S0424: 2, H0171: 1, S0442: 1, H0370: 1, H0574: 1, L0021: 1, S0366: 1, H0488: 1, L0372: 1, L0662: 1, L0375: 1, L0776: 1, H0144: 1, L0352: 1, H0539: 1, S0406: 1, L0747: 1, L0749: 1, L0755: 1, L0731: 1, L0759: 1, L0593: 1, L0361: 1 and S0276: 1.			
655	HE2PI56	721283	665	142 - 270	3262		H0624: 3, H0171: 2, L0777: 2, H0170: 1, S0040: 1, H0156: 1, H0328: 1, S0126: 1, H0539: 1 and L0731: 1.			
656	HE6CJ41	604908	666	231 - 263	3263		AR089: 12, AR316: 10, AR060: 7 H0341: 1 and H0100: 1.			
657	HE6DC37	658675	667	107 - 178	3264		H0617: 5, H0606: 2, L0744: 2, L0779: 2, H0295: 1, H0100: 1, S0440: 1, H0026: 1, L0762: 1, L0504: 1, L0769: 1, L0764: 1, L0662: 1, L0649: 1, L0804: 1, L0787: 1, L0666: 1, L0663: 1, H0520: 1, L0748: 1, L0751: 1.		20	

658	HE6DN83	695715	668	257 - 298	3265		1, L0752: 1 and S0436: 1. AR060: 7, AR316: 6, AR089: 5 H0271: 21, H0179: 11, H0457: 8, H0584: 6, H0521: 5, L0748: 4, L0777: 4, H0265: 3, H0585: 3, H0529: 3, L0776: 3, L0749: 3, L0779: 3, H0550: 2, H0087: 2, L0662: 2, L0766: 2, S0052: 2, L0438: 2, S0126: 2, L0747: 2, L0752: 2, H0543: 2, H0536: 1, H0167: 1, S0040: 1, H0294: 1, S0116: 1, H0341: 1, H0638: 1, S0360: 1, H0586: 1, H0497: 1, L0021: 1, H0231: 1, H0544: 1, H0545: 1, H0046: 1, H0123: 1, H0057: 1, H0416: 1, H0687: 1, H0290: 1, H0030: 1, L0455: 1, H0316: 1, H0135: 1, H0040: 1, H0634: 1, H0100: 1, S0426: 1, L0763: 1, L0770: 1, L0769: 1, L0761: 1, L0378: 1, L0806: 1, L0809: 1, L0663: 1, L0665: 1, S0428: 1, S0053: 1, S0216: 1, H0520: 1, H0682: 1, H0670: 1, H0518: 1, H0694: 1, H0134: 1, H0576: 1, L0754: 1, L0755: 1, L0731: 1, L0758: 1, S0031: 1, S0011: 1, H0136: 1, H0423: 1 and H0422: 1.	1
659	HE6EI30	847381	669	48 - 308	3266	Trp-47 to Arg-52.	AR060: 9, AR316: 9, AR089: 8 H0100: 1, S0053: 1 and S0216: 1. H0615: 1, H0688: 1, H0100: 1, L0530: 1, L0532: 1, L0663: 1, L0748: 1 and L0779: 1.	17p13.2
660	HE6EI70	732156	670	176 - 283	3267			
661	HE6GO65	647591	671	364 - 417	3268		AR060: 8, AR316: 7, AR089: 6 L0626: 2, L0512: 2, L0439:	109270, 109270, 109270, 109270, 109270, 113705.

662	HE8AN83	833052	672	285 - 362	3269		2, L0752: 2, H0171: 1, S0024: 1, L0021: 1, H0565: 1, H0100: 1, L0805: 1, L0636: 1, L0791: 1, H0547: 1, L0741: 1, L0745: 1, L0779: 1, L0731: 1 and L0757: 1.		113705, 144200, 148065, 148066, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 180240, 182138, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 600881, 601363, 601687, 601844, 601954
663	HE8AU68	821324	673	68 - 124	3270		H0013: 1 and H0124: 1. S0192: 5, L0471: 4, H0547: 3, H0519: 3, L0740: 3, L0747: 3, H0543: 3, S0418: 2, H0553: 2, L0439: 2, L0754: 2, L0599: 2, T0002: 1, S0212: 1, H0671: 1, S0358: 1, S0360: 1, H0637: 1, H0392: 1, T0114: 1, H0013: 1, H0581: 1, T0110: 1, H0015: 1, H0063: 1, H0510: 1, S0250: 1, S0003: 1, H0031: 1, H0212: 1, H0090: 1, H0551: 1, H0494: 1, L0475: 1, S0450: 1, H0132: 1, H0633: 1, S0142: 1, H0529: 1, L0769: 1, L0642: 1, L0662: 1, L0766: 1, L0803: 1, L0659: 1, L0665: 1, H0520: 1, S0126: 1, H0689: 1, H0521: 1, H0522: 1, H0436: 1, S0028: 1, L0748: 1, L0749: 1, L0779: 1, L0597: 1, L0591: 1, L0485: 1, L0608: 1, S0011: 1, S0076: 1, S0194: 1, H0542: 1 and H0423: 1.		
664	HE8BE20	815787	674	289 - 645	3271	Lys-17 to Cys-33.	AR060: 3, AR316: 2, AR089: 1		

									L0747: 21, L0731: 16, L0740: 12, L0748: 9, L0759: 8, L0794: 5, L0809: 5, L0439: 5, L0803: 4, S0028: 4, L0779: 4, L0757: 4, H0713: 3, H0427: 3, S0010: 3, L0598: 3, L0804: 3, L0805: 3, L0745: 3, H0583: 2, H0438: 2, H0486: 2, S0280: 2, H0575: 2, H0251: 2, H0428: 2, L0637: 2, L0764: 2, L0662: 2, L0774: 2, L0792: 2, L0664: 2, S0374: 2, L0749: 2, L0750: 2, L0588: 2, L0362: 2, H0171: 1, H0717: 1, S0402: 1, S06024: 1, S0116: 1, S0298: 1, H0661: 1, S0444: 1, S0360: 1, H0329: 1, H0632: 1, H0013: 1, T0082: 1, S0049: 1, H0434: 1, H0546: 1, H0545: 1, H0050: 1, L0471: 1, H0024: 1, S0051: 1, S0250: 1, H0328: 1, H0321: 1, H0040: 1, H0551: 1, L0369: 1, L0769: 1, L0772: 1, L0648: 1, L0521: 1, L0653: 1, L0776: 1, L0655: 1, L0659: 1, L0547: 1, L0783: 1, L0666: 1, L0663: 1, L0565: 1, H0711: 1, H0660: 1, S0027: 1, L0744: 1, L0752: 1, L0758: 1, S0434: 1, L0480: 1, L0590: 1, L0485: 1, S0192: 1 and S0196: 1.				
665	HESBP05	845980	675	202 - 246	3272		AR089: 13, AR316: 11, AR060: 8 H0013: 1						
666	HESBP64	847059	676	208 - 1350	3273	Thr-33 to Ala-41, Leu-95 to Arg-100, Asn-243 to Gln-249, Pro-287 to Asn-293, Val-332 to Gly-341, Thr-344 to Ile-355,	AR218: 23, AR253: 19, AR219: 18, AR270: 14, AR248: 12, AR312: 11, AR309: 10, AR052: 9, AR241: 9, AR184: 9, AR183: 8, AR290: 8,	9					

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Phe-370 to Thr-378.	AR186: 8, AR269: 8, AR249: 8, AR273: 8, AR274: 8, AR310: 7, AR284: 7, AR313: 7, AR175: 7, AR283: 7, AR296: 6, AR268: 6, AR185: 6, AR192: 6, AR244: 6, AR240: 6, AR286: 6, AR182: 6, AR104: 6, AR053: 6, AR243: 6, AR298: 6, AR299: 5, AR265: 5, AR294: 5, AR293: 5, AR292: 5, AR275: 5, AR213: 5, AR282: 5, AR295: 5, AR194: 5, AR266: 5, AR033: 4, AR055: 4, AR238: 4, AR258: 4, AR289: 4, AR060: 4, AR198: 4, AR206: 4, AR096: 4, AR291: 4, AR226: 4, AR316: 4, AR234: 4, AR300: 4, AR061: 4, AR247: 4, AR237: 4, AR267: 4, AR177: 4, AR251: 4, AR233: 3, AR204: 3, AR231: 3, AR246: 3, AR227: 3, AR229: 3, AR089: 3, AR283: 3, AR179: 3, AR205: 3, AR259: 3, AR202: 3, AR277: 3, AR256: 2, AR232: 2, AR263: 2 L0766: 9, L0439: 8, L0758: 8, H0521: 6, L0770: 5, L0665: 5, L0754: 5, L0749: 5, L0756: 5, L0752: 5, L0663: 4, L0740: 4, H0575: 3, H0590: 3, H0004:
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667	HE8BQ49	589443	677	133 - 168	3274		3, S0126: 3, L0751: 3, L0747: 3, L0757: 3, H0657: 2, L0415: 2, S0356: 2, H0486: 2, S0003: 2, S0214: 2, H0615: 2, H0644: 2, H0412: 2, H0059: 2, S0422: 2, L0769: 2, L0800: 2, L0771: 2, L0662: 2, L0649: 2, L0803: 2, L0657: 2, L0659: 2, L0666: 2, L0438: 2, H0547: 2, H0555: 2, L0750: 2, L0731: 2, L0759: 2, S0194: 2, H0556: 1, T0002: 1, S0040: 1, H0716: 1, S0114: 1, S0218: 1, H0656: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0408: 1, S0045: 1, S0046: 1, S0132: 1, S0476: 1, S0278: 1, H0369: 1, H0632: 1, H0013: 1, H0156: 1, H0002: 1, H0036: 1, S0010: 1, H0052: 1, L0738: 1, H0545: 1, H0046: 1, L0471: 1, H0020: 1, H0051: 1, H0083: 1, H0622: 1, H0030: 1, H0617: 1, L0055: 1, H0708: 1, H0316: 1, H0038: 1, T0041: 1, H0641: 1, S0144: 1, H0529: 1, L0763: 1, L0764: 1, L0794: 1, L0389: 1, L0650: 1, L0805: 1, L0809: 1, L0543: 1, L0664: 1, S0374: 1, H0690: 1, H0659: 1, H0660: 1, H0666: 1, S0380: 1, H0631: 1, S0141: 1, L0753: 1, S0434: 1, S0011: 1, H0665: 1, S0242: 1, S0276: 1 and H0423: 1, H0013: 2
668	HE8BR18	731933	678	207 - 302	3275		L0766: 10, L0748: 4, H0657: 3, H0013: 3, H0622: 3, L0750: 3, H0266: 2, L0378: 2, L0666: 2, L0777: 2, L0731: 2, L0758: 2, L0362: 2, L0600: 2, S0132: 1, H0611: 1, H0309: 1, H0057:

669	HE8BR30	839469	679	168 - 254	3276				1, H0494: 1, H0560: 1, H0625: 1, L0598: 1, L0769: 1, L0773: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0776: 1, L0655: 1, L0527: 1, L0659: 1, L0532: 1, L0663: 1, H0684: 1, H0521: 1, L0439: 1, L0740: 1, L0756: 1, L0779: 1, L0755: 1, L0757: 1, L0759: 1, L0595: 1 and S0026: 1.			
670	HE8BT58	806144	680	2371 - 2688	3277	Ser-24 to Glu-31, Asn-39 to Trp-45, Pro-75 to Ser-101.	AR089: 25, AR316: 17, AR060: 9 L0731: 12, L0747: 9, H0651: 5, L0759: 5, H0644: 4, H0013: 3, L0748: 3, L0439: 3, L0779: 3, H0575: 2, H0052: 2, H0327: 3, H0050: 2, H0083: 2, L0769: 2, L0662: 2, L0438: 2, H0539: 2, L0743: 2, L0750: 2, L0588: 2, H0716: 1, L0002: 1, L0443: 1, S0001: 1, S0360: 1, H0645: 1, H0411: 1, H0587: 1, H0333: 1, H0486: 1, S0010: 1, S0050: 1, H0051: 1, H0428: 1, H0553: 1, H0032: 1, L0455: 1, S0036: 1, H0038: 1, H0412: 1, H0413: 1, H0100: 1, T0042: 1, L0770: 1, L0637: 1, L0766: 1, L0649: 1, L0774: 1, L0776: 1, L0655: 1, L0659: 1, L0783: 1, L0529: 1, L0790: 1, L0791: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0670: 1, H0672: 1, H0696: 1, S3014: 1, L0741: 1, L0744: 1, L0757: 1, L0608: 1 and S0398: 1.	11q25	602782			
671	HE8BU60	751704	681	244 - 312	3278				L0663: 7, L0766: 2, S0024: 1, H0592: 1, H0013: 1, H0156: 1, H0052: 1, L0787: 1, H0144: 1.			

672	HE8CA13	761717	682	111 - 230	3279	1, L0742: 1, L0745: 1 and L0389: 1; L0771: 5, L0766: 4, L0655: 3, L0747: 3, L0752: 3, L0804: 2, L0779: 2, H0657: 1, S0444: 1, S0045: 1, L0717: 1, H0600: 1, H0013: 1, H0042: 1, H0150: 1, H0373: 1, L0369: 1, L0761: 1, L0659: 1, L0791: 1, L0663: 1, H0670: 1, L0754: 1, L0731: 1, L0758: 1, H0445: 1 and S0436: 1;		
673	HE8CC34	753266	683	163 - 249	3280	AR089: 26, AR316: 19, AR060: 14 H0013: 1, H0266: 1 and H0039: 1;		
674	HE8CH08	831849	684	347 - 457	3281	AR089: 8, AR316: 7, AR060: 6 S0360: 4, S0007: 3, S0222: 3, L0776: 3, L0731: 3, H0013: 2, H0599: 2, H0399: 2, S0003: 2, L0662: 2, L0809: 2, H0648: 2, L0747: 2, L0779: 2, L0752: 2, L0759: 2, H0624: 1, S0040: 1, H0656: 1, H0341: 1, S0410: 1, H0610: 1, H0574: 1, H0632: 1, T0060: 1, H0069: 1, H0575: 1, T0001: 1, H0046: 1, H0014: 1, H0594: 1, S0250: 1, H0428: 1, H0622: 1, H0553: 1, H0124: 1, H0040: 1, H0616: 1, H0413: 1, H0623: 1, H0625: 1, S0438: 1, S0142: 1, H0529: 1, L0637: 1, L0771: 1, L0803: 1, L0655: 1, L0657: 1, L0659: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0310: 1, H0670: 1, H0660: 1, H0672: 1, S0330: 1, H0696: 1, H0478: 1, L0777: 1, L0753: 1, L0758: 1, L0592: 1, S0026: 1;	6p22-p23	125264, 248611, 600511, 601556

675	HE8DG02	580191	685	235 - 303	3282			<p>SO192: 1, SO242: 1, H0423: 1 and SO244: 1.</p> <p>AR060: 3, AR316: 2,</p> <p>AR089: 1</p> <p>H0013: 3, L0786: 1 and L0779: 1.</p>		
676	HE8DK52	658676	686	137 - 235	3283			<p>AR104: 41, AR241: 25,</p> <p>AR313: 23, AR033: 21,</p> <p>AR274: 20, AR273: 19,</p> <p>AR186: 19, AR219: 16,</p> <p>AR198: 16, AR053: 16,</p> <p>AR192: 15, AR251: 15,</p> <p>AR243: 14, AR185: 14,</p> <p>AR275: 14, AR052: 14,</p> <p>AR271: 14, AR263: 14,</p> <p>AR218: 14, AR312: 13,</p> <p>AR265: 13, AR089: 13,</p> <p>AR293: 13, AR240: 13,</p> <p>AR244: 13, AR299: 12,</p> <p>AR309: 12, AR247: 12,</p> <p>AR310: 12, AR039: 11,</p> <p>AR205: 11, AR292: 11,</p> <p>AR096: 10, AR229: 10,</p> <p>AR177: 10, AR213: 10,</p> <p>AR316: 10, AR183: 10,</p> <p>AR238: 9, AR226: 9,</p> <p>AR194: 9, AR282: 8,</p> <p>AR258: 8, AR246: 8,</p> <p>AR060: 8, AR204: 8,</p> <p>AR300: 8, AR175: 8,</p> <p>AR249: 8, AR295: 7,</p> <p>AR202: 7, AR206: 7,</p> <p>AR233: 7, AR237: 7,</p> <p>AR231: 7, AR253: 7,</p> <p>AR294: 7, AR179: 7,</p> <p>AR234: 7, AR248: 6,</p> <p>AR061: 6, AR055: 6,</p> <p>AR277: 6, AR296: 6,</p> <p>AR227: 6, AR259: 5,</p> <p>AR267: 5, AR269: 5,</p>		

677	HE8DZ94	877630	687	29 - 145	3284	Met-1 to Thc-8.	AR270: 5, AR283: 5, AR182: 4, AR232: 4, AR286: 4, AR290: 4, AR268: 4, AR285: 4, AR256: 4, AR298: 3, AR289: 3, AR291: 3, AR284: 3, AR266: 3, AR184: 2 H0305: 5, S0358: 3, H0402: 2, S0376: 2, H0063: 2, H0494: 2, L0662: 2, L0659: 2, H0686: 1, H0294: 1, S0110: 1, H0306: 1, H0589: 1, H0580: 1, S0222: 1, H0586: 1, H0333: 1, H0013: 1, H0581: 1, L0471: 1, H0379: 1, H0652: 1, S0144: 1, S0002: 1, L0766: 1, L0439: 1 and L0731: 1 L0745: 7, H0486: 4, L0764: 3, L0774: 3, L0779: 3, H0543: 3, H0130: 2, L0766: 2, L0803: 2, H0666: 2, H0672: 2, L0746: 2, L0755: 2, L0758: 2, L0596: 2, T0049: 1, H0657: 1, H0662: 1, S0358: 1, S0360: 1, H0580: 1, S0046: 1, S0222: 1, H0586: 1, H0013: 1, L0021: 1, H0251: 1, H0266: 1, S0003: 1, S0214: 1, H0428: 1, H0535: 1, H0644: 1, H0674: 1, H0598: 1, H0038: 1, H0616: 1, H0268: 1, H0509: 1, L0371: 1, L0770: 1, L0637: 1, L0372: 1, L0662: 1, L0768: 1, L0550: 1, L0775: 1, L0375: 1, L0523: 1, L0542: 1, L0526: 1, L0809: 1, L0663: 1, S0126: 1, H0435: 1, H0670: 1, H0539: 1, S0380: 1, H0522: 1, S0044: 1, L0740: 1, L0754: 1, L0750: 1, L0759: 1, H0445: 1 and	12q14.1-q15	181430, 600698, 600698, 600698, 600698, 600808, 602116
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679	HE8EX86	823176	689	914 - 1129	3286	Ala-65 to Arg-71.	<p>4, L0754: 4, L0752: 4, H0624: 3, L0666: 3, H0547: 3, H0170: 2, H0586: 2, H0013: 2, H0052: 2, H0457: 2, H0266: 2, H0438: 2, H0031: 2, S0440: 2, L0662: 2, L0803: 2, L0809: 2, H0144: 2, L0756: 2, L0581: 2, L0599: 2, S0040: 1, H0344: 1, H0661: 1, S0356: 1, S0442: 1, S0360: 1, S0408: 1, H0329: 1, S0045: 1, S0046: 1, S0476: 1, H0351: 1, S0278: 1, H0441: 1, H0601: 1, H0592: 1, H0331: 1, T0039: 1, H0036: 1, H0037: 1, L0105: 1, T0048: 1, S0474: 1, H0251: 1, H0046: 1, H0012: 1, H0620: 1, S0388: 1, S0250: 1, H0615: 1, H0063: 1, H0412: 1, T0041: 1, H0646: 1, L0520: 1, L0371: 1, L0761: 1, L0630: 1, L0646: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0634: 1, L0659: 1, L0526: 1, L0664: 1, S0148: 1, H0519: 1, S0126: 1, H0711: 1, H0648: 1, H0651: 1, S0404: 1, S0390: 1, S0037: 1, L0745: 1, L0750: 1, L0779: 1, L0755: 1, L0758: 1, S0031: 1, H0444: 1, S0434: 1, S0011: 1, S0276: 1, S0424: 1 and H0506: 1.</p>		
						Ala-65 to Arg-71.	<p>AR060: 12, AR316: 10, AR089: 9 H0694: 48, L0777: 14, H0521: 11, L0794: 10, L0748: 10, L0747: 10, S0214: 9, S0360: 8, S0003: 8, H0644: 8, L0439: 8, H0553: 7, L0662: 7, L0659: 7, L0588: 7, H0543: 7, H0038: 6, L0646: 6, H0436: 6, L0740: 6, H0341: 5, S0358: 5,</p>		

680	HE8FC10	693908	690	315 - 752	3287	Glu-33 to Pro-40, Arg-59 to Pro-69, Gln-74 to Gly-84.	H0004: 1, H0274: 1, S0346: 1, H0310: 1, H0052: 1, L0040: 1, H0597: 1, H0572: 1, H0123: 1, H0050: 1, L0471: 1, H0375: 1, H0594: 1, H0687: 1, H0252: 1, H0039: 1, L0142: 1, H0628: 1, H0617: 1, H0032: 1, H0169: 1, H0674: 1, L0455: 1, H0068: 1, H0598: 1, H0135: 1, H0163: 1, H0634: 1, H0264: 1, H0272: 1, H0413: 1, T0069: 1, T0041: 1, H0625: 1, H0561: 1, S0450: 1, S0438: 1, H0509: 1, H0131: 1, H0654: 1, S0344: 1, S0210: 1, S0002: 1, S0426: 1, L0451: 1, L0520: 1, L0762: 1, L0763: 1, L0761: 1, L0773: 1, L0768: 1, L0386: 1, L0650: 1, L0375: 1, L0651: 1, L0654: 1, L0776: 1, L0527: 1, L0526: 1, L0518: 1, L0519: 1, L0545: 1, L0787: 1, L4501: 1, S0428: 1, S0216: 1, H0144: 1, H0691: 1, S0148: 1, H0519: 1, H0435: 1, H0658: 1, H0660: 1, H0666: 1, S0330: 1, S0152: 1, S0044: 1, H0479: 1, S0390: 1, S3014: 1, L0744: 1, L0750: 1, L0756: 1, L0752: 1, L0755: 1, L0731: 1, H0707: 1, L0594: 1, L0361: 1, S0026: 1, H0665: 1, S0196: 1, H0422: 1, S0458: 1 and H0506: 1.	16		107470, 107470, 107470, 121014,
681	HE8FG15	799520	691	138 - 236	3288		L0645: 2, L0764: 2, L0783: 2, H0661: 1, H0013: 1, L0021: 1, H0618: 1, H0318: 1, L0769: 1, L0806: 1, L0543: 1, H0684: 1, L0731: 1, L0758: 1 and L0759: 1.	6q23		

									L0779: 5, H0486: 4, S0010: 4, L0758: 4, S0222: 3, L0455: 3, S0386: 3, L0764: 3, L0771: 3, L0775: 3, L0438: 3, S0028: 3, L0749: 3, H0580: 2, H0208: 2, H0013: 2, S0280: 2, H0575: 2, H0251: 2, H0024: 2, S0214: 2, H0428: 2, H0622: 2, H0031: 2, H0644: 2, L0646: 2, L0800: 2, L0773: 2, L0662: 2, L0794: 2, L0804: 2, H0521: 2, L0752: 2, S0026: 2, H0583: 1, H0459: 1, S0418: 1, S0356: 1, H0675: 1, S0045: 1, H0619: 1, H0441: 1, T0039: 1, T0109: 1, H0581: 1, H0263: 1, H0596: 1, H0232: 1, H0327: 1, L0471: 1, H0057: 1, H0375: 1, H0266: 1, S0003: 1, H0688: 1, H0553: 1, H0376: 1, H0163: 1, H0090: 1, H0591: 1, H0616: 1, S0370: 1, S0382: 1, H0529: 1, L0770: 1, L0769: 1, L0638: 1, L0761: 1, L0772: 1, L0642: 1, L0767: 1, L0768: 1, L0364: 1, L0766: 1, L0606: 1, L0659: 1, L0809: 1, L0663: 1, H0144: 1, L0565: 1, L0352: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0672: 1, H0539: 1, L0602: 1, H0518: 1, S0146: 1, S3014: 1, L0439: 1, L0745: 1, L0750: 1, L0777: 1, L0755: 1, L0731: 1, H0595: 1, L0596: 1, H0543: 1 and H0352: 1.	142470, 156225, 164200, 164200, 207800, 601316, 601410, 601757, 602067
682	HE8FC24	733560	692	172 - 525	3289	Lys-36 to Asn-41.	AR275: 42, AR175: 32, AR268: 31, AR177: 23, AR219: 21, AR290: 19, AR183: 19, AR192: 19, AR218: 18, AR269: 17, AR270: 16, AR198: 16,	21q22.3	120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072.	

683	HE8FK78	852180	693	187 - 279	3290		2, H0265: 1, S0114: 1, H0583: 1, H0650: 1, S0212: 1, S0442: 1, S0354: 1, S0408: 1, H0351: 1, H0592: 1, H0575: 1, S0474: 1, H0581: 1, H0271: 1, H0687: 1, H0622: 1, S0382: 1, S0448: 1, H0529: 1, L0640: 1, L0763: 1, L0764: 1, L0771: 1, L0804: 1, L0776: 1, L0655: 1, L0788: 1, L0666: 1, H0666: 1, H0555: 1, L0751: 1, L0750: 1 and L0759: 1.		
684	HE8FL24	570157	694	251 - 403	3291	Ile-13 to Phe-19, Thr-29 to Tyr-34.	S0358: 4, L0438: 3, L0439: 3, L0527: 2, S0001: 1, S0222: 1, H0392: 1, H0587: 1, T0039: 1, H0013: 1, H0427: 1, S0280: 1, L0157: 1, L0471: 1, H0375: 1, H0266: 1, S0250: 1, L0805: 1, H0144: 1, H0555: 1, L0748: 1, L0779: 1, L0595: 1 and S0276: 1.		
685	HE8FL68	843777	695	223 - 267	3292	Met-1 to Pro-9.	AR060: 5, AR316: 3, AR089: 2, H0013: 1 and H0144: 1, AR266: 5, AR310: 5, AR186: 5, AR198: 4, AR267: 4, AR052: 4, AR246: 4, AR206: 4, AR243: 4, AR269: 3, AR275: 3, AR204: 3, AR055: 3, AR202: 3, AR309: 3, AR053: 3, AR213: 3, AR182: 3, AR249: 3, AR277: 3, AR289: 2, AR033: 2, AR265: 2, AR061: 2, AR283: 2, AR273: 2, AR291: 2, AR299: 2, AR185: 2, AR282: 2, AR296: 2, AR300: 2.		

686	HE8FR53	843807	696	1206 - 1319	3293	Asp-17 to Lys-26.	AR312: 2, AR244: 2, AR247: 2, AR286: 2, AR251: 2, AR313: 2, AR183: 2, AR253: 2, AR205: 2, AR284: 2, AR263: 2, AR241: 1, AR295: 1, AR240: 1, AR270: 1, AR290: 1, AR316: 1, AR089: 1, AR096: 1 H0013: 1 S0003: 19, H0013: 10, L0439: 5, L0438: 4, H0635: 3, L0157: 3, L0770: 3, L0766: 3, H0445: 3, H0422: 3, H0069: 2, H0581: 2, S0214: 2, H0591: 2, H0616: 2, S0422: 2, L0598: 2, L0794: 2, L0639: 2, L0636: 2, L0666: 2, H0144: 2, L0748: 2, L0739: 2, H0536: 1, H0657: 1, S0001: 1, S0400: 1, L0005: 1, L0717: 1, S0222: 1, H0586: 1, L0021: 1, H0004: 1, H0565: 1, H0271: 1, H0416: 1, H0644: 1, S0036: 1, H0090: 1, H0040: 1, H0634: 1, T0042: 1, L0638: 1, L0662: 1, L0626: 1, L0803: 1, L0375: 1, L0806: 1, L0776: 1, L0661: 1, L0647: 1, L0787: 1, L0789: 1, H0702: 1, H0539: 1, H0521: 1, L0744: 1, L0740: 1, L0747: 1, L0786: 1, L0758: 1 and S0031: 1.	14q21	182600, 232700, 602086, 602616
687	HE8MA27	664484	697	90 - 260	3294	Gln-45 to Gly-50.	L0438: 7, L0740: 4, H0416: 3, L0803: 3, L0777: 3, S0005: 2, H0544: 2, H0271: 2, H0090: 2, H0038: 2, H0551: 2, S0440: 2, L0766: 2, L0809: 2, H0436: 2, L0748: 2, L0439: 2, L0754: 2, L0758: 2, L0366: 2, H0265: 2.	7q21.1-q31.1	126650, 126650, 129900, 150240, 154276, 171050, 171060, 180105, 222800, 246900, 602136, 602136, 602136, 602447

688	HE8MG56	838064	698	276 - 548	3295	Ser-43 to Phe-53.	1, H0556: 1, H0583: 1, H0656: 1, H0341: 1, S0360: 1, S0408: 1, S0132: 1, S0476: 1, H0550: 1, S0222: 1, H0632: 1, H0492: 1, H0013: 1, L0021: 1, H0599: 1, S0049: 1, H0123: 1, H0375: 1, H0266: 1, H0622: 1, H0553: 1, H0383: 1, H0135: 1, H0040: 1, H0616: 1, H0087: 1, S0426: 1, L0769: 1, L0641: 1, L0644: 1, L0771: 1, L0773: 1, L0662: 1, L0768: 1, L0655: 1, L0665: 1, H0682: 1, H0696: 1, H0478: 1, L0749: 1, L0780: 1, L0759: 1 and H0422: 1.		
689	HE8MQ01	886800	699	127 - 240	3296	Arg-31 to Asn-37.	AR060: 3, AR316: 2, AR089: 1 H0013: 3 H0729: 1, H0392: 1, H0013: 1, H0318: 1, H0009: 1, H0328: 1, H0615: 1, T0041: 1, L0662: 1, L0768: 1, L0522: 1, H0436: 1, H0444: 1 and S0308: 1.		
690	HE8MS43	799521	700	1387 - 1407	3297		L0766: 9, L0439: 6, H0422: 6, S0328: 4, L0752: 4, H0171: 3, H0486: 3, H0046: 3, L0794: 3, L0803: 3, L0666: 3, H0144: 3, H0670: 3, H0483: 2, H0013: 2, H0036: 2, H0052: 2, H0375: 2, H0090: 2, H0551: 2, S0422: 2, L0763: 2, L0769: 2, L0646: 2, L0662: 2, L0768: 2, L0659: 2, L0809: 2, L0789: 2, L0665: 2, H0547: 2, H0658: 2, H0648: 2, H0696: 2, S0206: 2, L0747: 2, L0756: 2, L0758: 2, H0423: 2, S0116: 1, H0662: 1, S0418: 1, S0336: 1, S0376: 1, H0351: 1, S0222: 1, H0612: 1, H0587: 1, T0114: 1, H0635: 1, H0427: 1		

691	HE8MY77	847382	701	61 - 159	3298	<p>1, H0590: 1, H0004: 1, H0253: 1, H0041: 1, H0567: 1, H0123: 1, L0471: 1, H0024: 1, S0028: 1, H0266: 1, H0687: 1, S0003: 1, H0252: 1, H0615: 1, H0688: 1, H0622: 1, H0030: 1, L0055: 1, H0591: 1, H0040: 1, H0616: 1, H0379: 1, S0464: 1, S0450: 1, S0440: 1, H0132: 1, S0210: 1, L0761: 1, L0667: 1, L0764: 1, L0650: 1, L0774: 1, L0805: 1, L0653: 1, L0655: 1, L0663: 1, L0664: 1, L0438: 1, H0539: 1, H0522: 1, H0478: 1, S0032: 1, L0748: 1, L0780: 1, L0753: 1, H0445: 1, S0434: 1, L0608: 1, S0026: 1 and S0452: 1.</p> <p>L0747: 28, L0731: 13, L0740: 12, L0770: 8, L0776: 8, L0766: 5, L0809: 5, L0754: 5, L0750: 5, L0756: 5, L0752: 5, L0757: 5, S0358: 4, L0662: 4, L0664: 4, L0748: 4, L0439: 4, L0759: 4, L0362: 4, S0282: 3, S0360: 3, H0632: 3, H0013: 3, H0052: 3, H0553: 3, L0769: 3, L0666: 3, L0749: 3, L0758: 3, L0601: 3, S0212: 2, S0132: 2, H0411: 2, S0222: 2, H0587: 2, H0574: 2, H0486: 2, H0327: 2, S0388: 2, T0010: 2, H0266: 2, H0413: 2, H0647: 2, L0598: 2, L0794: 2, L0774: 2, L0659: 2, L0783: 2, L0519: 2, H0144: 2, L0438: 2, H0547: 2, H0539: 2, S0152: 2, L0742: 2, L0745: 2, L0779: 2, L0755: 2, S0260: 2, H0665: 2, H0624: 1, H0346: 1, H0661: 1, S0376: 1, S0408: 1, S0046: 1, H0431: 1, H0392: 1.</p>		
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692	HE8NC81	862015	702	74 - 115	3299			1, H0357: 1, H0592: 1, H0427: 1, S0010: 1, H0123: 1, H0024: 1, L0146: 1, H0014: 1, H0373: 1, S0051: 1, S6028: 1, H0029: 1, H0039: 1, H0031: 1, L0142: 1, H0674: 1, H0376: 1, H0591: 1, H0551: 1, H0488: 1, H0412: 1, L0351: 1, H0560: 1, H0561: 1, S0438: 1, S0210: 1, S0002: 1, S0426: 1, UNKNW: 1, H0529: 1, L0369: 1, L0763: 1, L0796: 1, L0772: 1, L0646: 1, L0764: 1, L0771: 1, L0648: 1, L0363: 1, L0767: 1, L0775: 1, L0651: 1, L0805: 1, L0787: 1, L0665: 1, S0374: 1, H0691: 1, H0593: 1, H0670: 1, S0328: 1, S0330: 1, H0694: 1, H0436: 1, S0028: 1, H0444: 1, S0434: 1, L0592: 1, S0276: 1 and H0423: 1.		
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693	HE8NO09	1096692	2602	419 - 1264	5199	Lys-84 to Glu-95, Ser-243 to Ser-249.	AR089: 16, AR316: 14, AR060: 13 L0734: 9, L0756: 5, L0731: 4, H0013: 3, L0770: 3, L0005: 2, H0599: 2, L0783: 2, L0809: 2, H0144: 2, H0435: 2, H0658: 2, L0439: 2, L0758: 2, H0717: 1, H0656: 1, S0001: 1, H0663: 1, S0358: 1, S0444: 1, H0728: 1, L0717: 1, H0261: 1, H0592: 1, H0333: 1, H0581: 1, H0510: 1, S0628: 1, H0266: 1, H0328: 1, H0553: 1, H0674: 1, H0412: 1, T0041: 1, S0440: 1, L0662: 1, L0650: 1, L0375: 1, L0666: 1, L0663: 1, L0664: 1, H0520: 1, H0547: 1, H0690: 1, H0478: 1, L0744: 1, L0779: 1, L0777: 1 and L0590: 1.	1	S0452: 1.
694	HE8QU21	838391	704	4 - 192	3301	Ala-42 to Trp-47.	AR060: 6, AR316: 5, AR089: 3 H0144: 5, H0580: 1, H0013: 1 and H0665: 1.		
695	HE8SH74	833053	705	47 - 133	3302	Met-23 to Glu-28.	H0445: 2, S0114: 1, H0244: 1, H0057: 1, S0003: 1, H0163: 1, S0426: 1 and L0527: 1.		
696	HE8UX34	838170	706	142 - 366	3303	Pro-26 to Ala-32, Ala-36 to Ala-42, Pro-50 to Ala-64.	AR060: 5, AR316: 3, AR089: 1 H0013: 3 and H0144: 2.		
697	HE9AE05	863257	707	654 - 710	3304		L0794: 3, L0789: 3, L0751: 3, H0261: 2, T0010: 2, H0687: 2, S0036: 2, L0805: 2, H0144: 2, L0438: 2, L0439: 2, L0754: 2, L0747: 2, L0750: 2, L0758: 2, L0596: 2, S0040: 1, S0212: 1, S0046: 1, H0633: 1, H0643: 1.		

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698	HE9B114	805730	708	188 - 280	3305		L0755: 4, H0144: 3, L0748: 3, L0777: 3, L0761: 2, L0731: 1, H0395: 1, L0785: 1, H0252: 1, L0766: 1, L0745: 1 and L0779: 1.				
699	HE9C181	734918	709	1629 - 1709	3306		L0748: 9, L0779: 4, L0766: 3, L0777: 3, L0758: 3, S0003: 2, H0144: 2, L0438: 2, L0731: 2, L0759: 2, S0356: 1, S0376: 1, S0222: 1, H0497: 1, H0362: 1, H0013: 1, T0048: 1, H0421: 1, H0050: 1, H0083: 1, H0031: 1, H0135: 1, S0440: 1, L0769: 1, L0774: 1, L0806: 1, L0788: 1, H0435: 1, H0648: 1, S0406: 1, H0555: 1, L0439: 1, L0740: 1, L0749: 1, L0608: 1 and H0506: 1.				
700	HE9C138	565082	710	85 - 147	3307		H0144: 1				
701	HE9CM11	821325	711	6 - 110	3308		H0144: 1				181430, 600194, 600231, 600808, 601284, 601769, 601769, 602116
702	HE9CN58	562768	712	139 - 189	3309		AKR089: 7, AR316: 6, AR060: 5 H0083: 2, T0067: 2, L0598: 2, L0794: 2, H0341: 1, S0212: 1, S0222: 1, S0346: 1, S0474: 1, S0266: 1, S0214: 1, H0628: 1, UNKWN: 1, L0761: 1, L0772: 1, L0764: 1, L0804: 1, H0144: 1, H0670: 1, L0758: 1, H0144: 1				

703	HE9CV59	847061	713	152 - 235	3310	<p>S0011: 1 and H0352: 1, H0583: 19, L0747: 15, L0748: 13, L0731: 11, L0777: 10, L0438: 9, H0141: 8, L0755: 8, H0046: 7, L0766: 7, S0003: 6, L0803: 6, L0805: 6, L0439: 6, L0779: 6, L0758: 6, S0360: 5, L0770: 5, L0774: 5, S0126: 5, L0740: 5, L0588: 5, H0545: 4, H0040: 4, L0763: 4, H0144: 4, L0749: 4, L0596: 4, L0485: 4, H0556: 3, H0657: 3, S0358: 3, S0476: 3, H0599: 3, S0010: 3, H0024: 3, H0014: 3, H0622: 3, H0494: 3, S0426: 3, L0776: 3, L0809: 3, S0152: 3, L0752: 3, H0265: 2, S0408: 2, H0574: 2, H0632: 2, S0280: 2, H0156: 2, H0381: 2, H0123: 2, H0051: 2, H0510: 2, H0634: 2, H0616: 2, S0440: 2, L0598: 2, L0369: 2, L0646: 2, L0775: 2, L0651: 2, L0653: 2, L0807: 2, L0665: 2, H0547: 2, H0519: 2, H0659: 2, S0378: 2, S0380: 2, H0704: 2, S0044: 2, S0027: 2, L0754: 2, L0745: 2, L0599: 2, L0362: 2, L0601: 2, H0653: 2, H0423: 2, T0002: 1, H0716: 1, S6024: 1, T0049: 1, S0218: 1, H0656: 1, H0341: 1, H0664: 1, H0638: 1, S0420: 1, S0356: 1, S0444: 1, H0208: 1, S0045: 1, S0132: 1, H0645: 1, L0717: 1, H0351: 1, S0278: 1, H0369: 1, S0222: 1, H0370: 1, H0357: 1, H0587: 1, H0331: 1, H0486: 1, H0635: 1, H0002: 1, H0042: 1, H0122: 1, H0706: 1, S0346: 1, S0474: 1, H0052: 1, H0263: 1,</p>		
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706	HE9DZ47	835820	716	239 - 373	3313		2, S0358: 2, S0046: 2, L0717: 2, H0618: 2, S0010: 2, H0581: 2, H0090: 2, H0641: 2, L0372: 2, L0764: 2, L0766: 2, L0382: 2, L0666: 2, L0748: 2, L0361: 2, H0170: 1, S0024: 1, H0662: 1, L0481: 1, S0354: 1, S0444: 1, S0408: 1, H0722: 1, S0132: 1, H0619: 1, S0222: 1, H0587: 1, H0333: 1, H0574: 1, L0622: 1, H0486: 1, H0635: 1, H0599: 1, S0346: 1, H0596: 1, T0115: 1, H0150: 1, H0081: 1, H0246: 1, H0051: 1, H0179: 1, H0252: 1, H0644: 1, H0674: 1, S0366: 1, H0163: 1, H0551: 1, H0056: 1, H0623: 1, H0647: 1, S0002: 1, L0369: 1, L0640: 1, L0763: 1, L0371: 1, L0772: 1, L0643: 1, L0767: 1, L0768: 1, L0381: 1, L0655: 1, L0659: 1, L0519: 1, L0793: 1, L0663: 1, L0665: 1, H0144: 1, H0547: 1, H0435: 1, H0670: 1, S0146: 1, S0102: 1, L0780: 1, L0752: 1, L0757: 1, L0588: 1, H0653: 1, H0136: 1, H0217: 1, H0216: 1, H0423: 1, S0042: 1, S0458: 1, S0462: 1, H0506: 1, L0600: 1 and H0352: 1.		601493, 602082
707	HE9EC36	784960	717	541 - 561	3314		2, S0358: 2, S0046: 2, L0717: 2, H0618: 2, S0010: 2, H0581: 2, H0090: 2, H0641: 2, L0372: 2, L0764: 2, L0766: 2, L0382: 2, L0666: 2, L0748: 2, L0361: 2, H0170: 1, S0024: 1, H0662: 1, L0481: 1, S0354: 1, S0444: 1, S0408: 1, H0722: 1, S0132: 1, H0619: 1, S0222: 1, H0587: 1, H0333: 1, H0574: 1, L0622: 1, H0486: 1, H0635: 1, H0599: 1, S0346: 1, H0596: 1, T0115: 1, H0150: 1, H0081: 1, H0246: 1, H0051: 1, H0179: 1, H0252: 1, H0644: 1, H0674: 1, S0366: 1, H0163: 1, H0551: 1, H0056: 1, H0623: 1, H0647: 1, S0002: 1, L0369: 1, L0640: 1, L0763: 1, L0371: 1, L0772: 1, L0643: 1, L0767: 1, L0768: 1, L0381: 1, L0655: 1, L0659: 1, L0519: 1, L0793: 1, L0663: 1, L0665: 1, H0144: 1, H0547: 1, H0435: 1, H0670: 1, S0146: 1, S0102: 1, L0780: 1, L0752: 1, L0757: 1, L0588: 1, H0653: 1, H0136: 1, H0217: 1, H0216: 1, H0423: 1, S0042: 1, S0458: 1, S0462: 1, H0506: 1, L0600: 1 and H0352: 1.	6023.1-6025.3	106678, 107470, 107470, 107470, 121014, 142470, 164200, 164200, 180020, 600330, 600883, 601316, 601757, 602544

708	HE9HEM54	560627	718	125 - 205	3315		L0526: 1, H0144: 1, L0748: 1 and H0543: 1.		
709	HE9HF128	633737	719	159 - 251	3316		AR089: 15, AR316: 12, AR060: 10, H0144: 1		
710	HE9HE13	868829	720	1949 - 1966	3317		H0156: 8, L0794: 7, L0776: 6, S0222: 4, L0749: 3, H0031: 2, L0638: 2, L0805: 2, L0439: 2, H0171: 1, S6024: 1, S0001: 1, S0300: 1, L0021: 1, S0346: 1, H0041: 1, H0024: 1, S6028: 1, H0087: 1, H0623: 1, S0038: 1, H0625: 1, L0625: 1, L0769: 1, L0637: 1, H0144: 1, L0748: 1, L0780: 1 and S0106: 1.	1432	123270, 245200, 251600, 270100, 276900
711	HE9HE13	824328	721	739 - 756	3318		H0156: 8, L0794: 7, L0776: 6, S0222: 4, L0749: 3, H0031: 2, L0638: 2, L0805: 2, L0439: 2, H0171: 1, S6024: 1, S0001: 1, S0300: 1, L0021: 1, S0346: 1, H0041: 1, H0024: 1, S6028: 1, H0087: 1, H0623: 1, S0038: 1, H0625: 1, L0625: 1, L0769: 1, L0637: 1, H0144: 1, L0748: 1, L0780: 1 and S0106: 1.	1432	123270, 245200, 251600, 270100, 276900
712	HE9HF59	664485	722	412 - 432	3319		H0144: 1		
713	HE9HV71	658679	723	200 - 295	3320	Ser-20 to Cys-26.	L0748: 8, S0346: 2, H0144: 2, L0754: 2, H0656: 1, S0358: 1, S0408: 1, H0331: 1, H0620: 1, L0805: 1, L0531: 1, H0682: 1 and S0424: 1.		
714	HE9NB82	790925	724	60 - 389	3321	Gln-43 to Arg-49, Leu-77 to Asn-88.	L0748: 10, L0749: 4, H0619: 2, S0278: 2, H0618: 2, L0805: 2, L0439: 2, L0758: 2, L0605: 2, H0664: 1, H0402: 1, S0007: 1, S0476: 1, H0393: 1, H0549: 1, S0222: 1, H0253: 1, H0050: 1, H0038: 1, H0616: 1, H0077: 1, L0770: 1, L0794: 1, L0789: 1.		

715	HE9NE43	853313	725	276 - 335	3322			1, H0144: 1, L0438: 1 and L0742: 1. AR089: 6, AR316: 5, AR060: 5 H0144: 5		
716	HE9RN58	840361	726	515 - 595	3323			AR316: 10, AR060: 10, AR089: 10 L0439: 13, L0438: 9, L0750: 8, L0777: 6, L0779: 4, L0749: 3, H0052: 2, L0771: 2, L0768: 2, L0665: 2, H0144: 2, L0748: 2, L0603: 2, H0171: 1, H0583: 1, H0333: 1, H0486: 1, H0013: 1, H0310: 1, H0688: 1, H0031: 1, H0169: 1, H0264: 1, L0351: 1, H0641: 1, L0640: 1, L0371: 1, L0796: 1, L0372: 1, L0764: 1, L0773: 1, L0666: 1, L0664: 1, L0352: 1, H0547: 1, H0658: 1, L0747: 1, L0731: 1 and L0758: 1.	16	
717	HE9TA42	834972	727	2540 - 2650	3324	Asp-21 to Trp-34.		AR089: 11, AR316: 10, AR060: 8 L0745: 14, L0748: 7, L0659: 6, L0758: 6, H0556: 4, H0254: 4, H0551: 4, L0771: 4, L0459: 4, L0751: 4, L0747: 4, L0596: 4, H0266: 3, H0188: 3, H0617: 3, L0662: 3, L0663: 3, L0754: 3, L0752: 3, L0731: 3, H0542: 3, H0543: 3, H0255: 2, S0418: 2, S0442: 2, S0360: 2, H0619: 2, H0156: 2, H0581: 2, H0052: 2, H0040: 2, L0769: 2, L0806: 2, L0665: 2, H0144: 2, H0518: 2, S0152: 2, H0521: 2, L0743: 2, L0746: 2, L0756: 2, L0759: 2, H0707: 2, L0581: 2, H0265: 1, H0717: 1, S0134: 1, H0583: 1, H0656: 1, S0116: 1, S0212:	10	

718	HEAAC21	581048	728	68 - 259	3325		1, S0282: 1, H0661: 1, H0402: 1, H0125: 1, S0420: 1, L0005: 1, S0356: 1, H0637: 1, H0580: 1, H0728: 1, H0733: 1, S0046: 1, S0476: 1, S0222: 1, L0623: 1, H0486: 1, T0040: 1, H0013: 1, H0618: 1, S0474: 1, H0309: 1, H0046: 1, H0050: 1, H0373: 1, H0375: 1, H0428: 1, H0039: 1, H0622: 1, H0031: 1, L0055: 1, H0673: 1, S0366: 1, H0038: 1, H0623: 1, H0100: 1, H0494: 1, S0450: 1, H0641: 1, H0633: 1, S0002: 1, H0529: 1, L5575: 1, L0643: 1, L0363: 1, L0766: 1, L0649: 1, L0650: 1, L0651: 1, L0653: 1, L0661: 1, L0544: 1, L0792: 1, L0666: 1, H0520: 1, H0593: 1, S0126: 1, H0682: 1, H0658: 1, H0660: 1, H0648: 1, H0672: 1, H0539: 1, H0696: 1, H0704: 1, H0555: 1, L0750: 1, L0777: 1, S0434: 1 and H0506: 1		
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719	HEAAC39	637600	729	299 - 316	3326				1, L0759: 1, S0031: 1, S0434: 1, L0589: 1 and L0599: 1. AR290: 15, AR270: 12, AR257: 9, AR173: 9, AR267: 9, AR209: 8, AR182: 8, AR176: 7, AR183: 7, AR268: 7, AR286: 6, AR296: 6, AR266: 6, AR175: 6, AR161: 6, AR162: 6, AR191: 6, AR289: 6, AR163: 6, AR198: 5, AR039: 5, AR189: 5, AR181: 5, AR180: 5, AR204: 5, AR185: 5, AR242: 5, AR190: 5, AR053: 5, AR228: 5, AR178: 4, AR089: 4, AR272: 4, AR255: 4, AR174: 4, AR300: 4, AR165: 4, AR164: 4, AR177: 4, AR236: 4, AR179: 4, AR166: 4, AR287: 4, AR288: 4, AR262: 4, AR299: 4, AR295: 4, AR238: 4, AR293: 4, AR263: 4, AR233: 4, AR294: 4, AR309: 3, AR239: 3, AR261: 3, AR316: 3, AR231: 3, AR252: 3, AR218: 3, AR188: 3, AR192: 3, AR291: 3, AR219: 3, AR237: 3, AR196: 3, AR313: 3, AR060: 3, AR234: 3, AR283: 3, AR285: 3, AR256: 3, AR205: 3, AR297: 3, AR201: 3, AR203: 3, AR229: 3.
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720	HEAAC48	603520	730	178 - 270	3327			AR247: 3, AR221: 3, AR061: 3, AR195: 3, AR232: 3, AR226: 3, AR211: 3, AR312: 3, AR250: 3, AR207: 2, AR168: 2, AR055: 2, AR200: 2, AR225: 2, AR258: 2, AR214: 2, AR271: 2, AR260: 2, AR227: 2, AR264: 2, AR274: 2, AR216: 2, AR277: 2, AR172: 2, AR240: 2, AR308: 2, AR275: 2, AR235: 2, AR213: 2, AR193: 2, AR224: 1, AR223: 1, AR096: 1, AR282: 1, AR197: 1 L0747: 4, L0777: 3, L0657: 2, L0759: 2, L0811: 1, H0369: 1, L0021: 1, S0346: 1, H0009: 1, L0637: 1, L0772: 1, L0375: 1, L0783: 1, L0809: 1, H0659: 1, H0660: 1, L0731: 1 and L0758: 1
721	HEAAD63	603321	731	107 - 139	3328			L0438: 3, H0369: 1, L0627: 1 and L0439: 1.
722	HEAAE19	825833	732	296 - 340	3329			S0001: 1 and H0369: 1, H0369: 1, L0520: 1, L0663: 1, S0053: 1 and L0748: 1.
723	HEAAM54	740751	733	219 - 344	3330			H0369: 1
724	HEAAM96	562769	734	217 - 264	3331			AR089: 8, AR316: 8, AR060: 8 H0369: 1
725	HEAAN52	862020	735	377 - 424	3332			
726	HEAAU28	604909	736	73 - 195	3333			H0369: 1, L0657: 1, L0517: 1, H0648: 1 and L0777: 1.
727	HEAAW54	843633	737	196 - 337	3334			H0369: 1, L0649: 1 and L0666: 1.

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728	HEAAW94	847340	738	189 - 224	3335		L0439: 26, L0438: 20, L0748: 17, L0766: 16, L0754: 16, L0731: 16, H0556: 9, L0740: 8, S0222: 7, H0090: 7, L0774: 7, H0144: 6, L0745: 6, L0779: 6, L0777: 6, L0758: 6, S0003: 5, L0662: 5, L0794: 5, S0418: 4, H0575: 4, L0776: 4, L0751: 4, L0749: 4, L0756: 4, L0752: 4, L0591: 4, H0423: 4, H0341: 3, S0360: 3, H0369: 3, H0156: 3, L0435: 3, L0769: 3, L0775: 3, L0809: 3, L0666: 3, H0547: 3, S0328: 3, H0521: 3, L0747: 3, L0750: 3, L0780: 3, H0543: 3, H0171: 2, S0442: 2, S0354: 2, S0358: 2, S0132: 2, S0278: 2, H0497: 2, T0039: 2, H0706: 2, H0036: 2, H0596: 2, H0009: 2, H0375: 2, S6028: 2, H0266: 2, S0214: 2, H0328: 2, H0622: 2, H0644: 2, H0591: 2, H0413: 2, T0041: 2, L0770: 2, L0796: 2, L0363: 2, L0806: 2, L0659: 2, L0542: 2, L0783: 2, L0791: 2, L0665: 2, H0518: 2, S0304: 2, S0028: 2, H0595: 2, S0434: 2, L0589: 2, L0604: 2, L0601: 2, H0542: 2, S0424: 2, L0411: 1, H0624: 1, H0170: 1, L0615: 1, H0265: 1, S0342: 1, S6024: 1, S0134: 1, H0657: 1, S0212: 1, H0450: 1, S0420: 1, L0005: 1, S0444: 1, H0580: 1, S0045: 1, S0476: 1, H0393: 1, H0550: 1, H0441: 1, H0370: 1, H0600: 1, H0586: 1, H0587: 1, H0486: 1, H0250: 1, H0635: 1, L0021: 1, S0182: 1, L0563: 1, H0052: 1, H0309: 1, H0046: 1	3p14.3	150250, 164500, 277730, 600971, 601226
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729	HEBATP51	631248	739	1060 - 1173	3336		L0157: 1, L0118: 1, H0566: 1, H0081: 1, H0050: 1, H0057: 1, S0051: 1, S0318: 1, S0316: 1, H0687: 1, S0250: 1, H0615: 1, H0428: 1, H0039: 1, L0483: 1, H0553: 1, L0055: 1, H0032: 1, H0673: 1, S0366: 1, H0038: 1, H0634: 1, H0380: 1, H0488: 1, H0623: 1, H0059: 1, S0112: 1, L0351: 1, H0641: 1, H0646: 1, S0344: 1, S0002: 1, S0426: 1, L0638: 1, L4747: 1, L0761: 1, L0627: 1, L0372: 1, L0646: 1, L0374: 1, L0644: 1, L0771: 1, L0767: 1, L0768: 1, L0549: 1, L0550: 1, L0533: 1, L0804: 1, L0650: 1, L0375: 1, L0651: 1, L0523: 1, L0655: 1, L0782: 1, L0790: 1, L0663: 1, L0664: 1, S0148: 1, L0352: 1, H0520: 1, H0519: 1, S0126: 1, H0672: 1, S0152: 1, H0522: 1, H0696: 1, S0044: 1, S0406: 1, L0612: 1, S3012: 1, L0746: 1, L0786: 1, L0759: 1, H0445: 1, L0684: 1, S0436: 1, L0608: 1, H0667: 1, S0276: 1 and H0422: 1.	
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730	HEBAT05	637602	740	216 - 383	3337	Gly-37 to Pro-45.	H0620: 8, S0007: 7, L0731: 7, H0012: 5, L0751: 5, L0747:	16

						5, L0769: 4, H0144: 4, H0657: 3, H0617: 3, L0794: 3, L0775: 3, S0406: 3, L0750: 3, H0556: 2, H0662: 2, H0253: 2, H0545: 2, H0046: 2, H0024: 2, H0424: 2, H0213: 2, H0087: 2, H0494: 2, L0766: 2, L0774: 2, L0809: 2, L0519: 2, L0532: 2, H0547: 2, H0683: 2, L0743: 2, L0744: 2, L0779: 2, L0757: 2, L0759: 2, H0445: 2, H0624: 1, H0170: 1, H0171: 1, T0002: 1, H0167: 1, H0341: 1, H0638: 1, S0418: 1, S0420: 1, S0358: 1, S0360: 1, S0045: 1, S0046: 1, H0393: 1, H0437: 1, H0550: 1, S0222: 1, H0370: 1, L0622: 1, H0485: 1, H0486: 1, H0618: 1, H0318: 1, H0581: 1, H0309: 1, H0544: 1, H0150: 1, H0565: 1, H0571: 1, H0051: 1, S0388: 1, H0266: 1, H0622: 1, H0031: 1, H0181: 1, S0366: 1, H0598: 1, S0036: 1, H0038: 1, H0551: 1, H0413: 1, T0041: 1, H0509: 1, H0538: 1, L0770: 1, L0648: 1, L0776: 1, L0655: 1, L0659: 1, L0789: 1, L0790: 1, L0791: 1, S0374: 1, H0693: 1, H0520: 1, H0435: 1, H0660: 1, S0378: 1, S0380: 1, S0027: 1, S0028: 1, L0748: 1, S0260: 1, L0604: 1, L0593: 1, S0194: 1, H0543: 1 and H0423: 1.	12	
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H0144: 4, H0436: 4, L0591: 4, L0599: 4, L0366: 4, S0222: 3, S0366: 3, L0803: 3, L0775: 3, L0754: 3, L0747: 3, L0757: 3, L0759: 3, H0170: 2, H0662: 2, T0060: 2, H0575: 2, S0346: 2, S0049: 2, H0052: 2, H0271: 2, H0032: 2, S0364: 2, L0455: 2, H0413: 2, H0100: 2, S0142: 2, L0771: 2, L0662: 2, L0649: 2, L0806: 2, L0659: 2, L0809: 2, L0666: 2, L0663: 2, L0665: 2, H0519: 2, L0744: 2, L0740: 2, L0750: 2, L0779: 2, L0755: 2, L0731: 2, L0758: 2, S0434: 2, L0595: 2, H0624: 1, H0713: 1, S6024: 1, S0430: 1, H0661: 1, S0418: 1, S0376: 1, S0444: 1, H0580: 1, S0046: 1, H0619: 1, S6026: 1, L0717: 1, S0278: 1, H0586: 1, H0587: 1, H0642: 1, H0574: 1, T0039: 1, T0040: 1, H0013: 1, H0156: 1, L0021: 1, H0036: 1, L0105: 1, S0474: 1, H0263: 1, H0545: 1, H0569: 1, H0050: 1, H0024: 1, H0051: 1, S0388: 1, S0051: 1, T0010: 1, H0328: 1, H0615: 1, H0424: 1, H0031: 1, H0553: 1, H0644: 1, H0628: 1, H0617: 1, H0634: 1, H0551: 1, H0056: 1, T0041: 1, H0561: 1, S0438: 1, H0529: 1, L0520: 1, L0763: 1, L0761: 1, L0648: 1, L0521: 1, L0767: 1, L0375: 1, L0651: 1, L0805: 1, L0657: 1, L0656: 1, L0783: 1, L0382: 1, L0367: 1, H0701: 1, T0068: 1, L0352: 1, H0547: 1, S0126: 1, H0684: 1, H0648: 1, H0672: 1, S0330: 1, H0710: 1,
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737	HEBFL36	604638	747	381 - 512	3344		1, S0366: 1, H0135: 1, H0591: 1, L0351: 1, H0132: 1, S0344: 1, L0770: 1, L3905: 1, L0761: 1, L0764: 1, L0773: 1, L0662: 1, L0776: 1, L0657: 1, L0783: 1, L0666: 1, L0663: 1, L0665: 1, H0547: 1, H0638: 1, H0521: 1, L0754: 1, L0777: 1 and H0008: 1.		
738	HEBGC01	635224	748	201 - 311	3345	Asp-31 to Pro-36.	S0007: 3, L0438: 1 and L0439: 1. AR060: 8, AR316: 7, AR089: 5 S0007: 2		
739	HEBGE23	836129	749	153 - 398	3346		AR089: 3, AR316: 3, AR060: 3 L0809: 7, L0758: 7, S0007: 4, L0662: 4, L0794: 4, L0665: 4, L0754: 4, H0333: 3, L0769: 3, L0761: 3, L0803: 3, L0439: 3, H0395: 2, S0222: 2, H0124: 2, S0036: 2, L0535: 2, L0666: 2, H0638: 2, L0751: 2, L0747: 2, L0435: 2, H0716: 1, H0295: 1, H0402: 1, S0418: 1, S0442: 1, H0619: 1, H0586: 1, L0623: 1, H0486: 1, S0280: 1, L0021: 1, H0618: 1, H0318: 1, H0052: 1, H0251: 1, H0123: 1, H0050: 1, H0012: 1, S0051: 1, H0179: 1, H0615: 1, T0006: 1, H0673: 1, H0135: 1, H0087: 1, H0264: 1, H0100: 1, L0763: 1, L5565: 1, L0667: 1, L0772: 1, L0644: 1, L0768: 1, L0775: 1, L0805: 1, L0655: 1, L0659: 1, L0526: 1, L0663: 1, S0032: 1, H0682: 1, H0660: 1, L0743: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, L0592: 1, H0136: 1 and	19q13.1	164731, 172400, 172400, 180901, 180901, 221170, 248600, 600918, 602716

740	HEBG65	834478	750	615 - 638	3347		S0424: 1. AR060: 6, AR316: 6, AR089: 6 L0777: 8, L0439: 7, L0747: 7, S0007: 6, L0758: 5, L0779: 4, L0803: 3, H0539: 3, L0794: 2, L0791: 2, S0136: 2, L0756: 2, L0441: 1, S0222: 1, H0708: 1, L0764: 1, L0805: 1, L0438: 1, S0146: 1, L0780: 1, L0755: 1 and L0592: 1. AR060: 12, AR316: 10, AR089: 8 L0747: 19, L0769: 13, L0750: 11, L0779: 11, L0789: 10, L0805: 9, L0748: 9, L0770: 8, L0754: 8, S0474: 6, L0766: 6, L0439: 6, L0740: 6, L0731: 5, S0356: 4, S0222: 4, S0003: 4, L0662: 4, L0776: 4, L0759: 4, S0134: 3, H0638: 3, S0422: 3, L0764: 3, L0794: 3, S0375: 3, L0807: 3, L0783: 3, L0438: 3, L0744: 3, L0758: 3, S0436: 3, H0422: 3, H0170: 2, H0636: 2, S0358: 2, S0360: 2, S0045: 2, H0559: 2, H0050: 2, L0471: 2, S0051: 2, H0622: 2, S0364: 2, H0591: 2, H0634: 2, H0264: 2, L0763: 2, L0771: 2, L0803: 2, L0657: 2, L0659: 2, L0517: 2, L0665: 2, H0723: 2, S0328: 2, H0521: 2, L0749: 2, L0756: 2, L0752: 2, L0753: 2, L0757: 2, L0485: 2, L0604: 2, L0595: 2, H0543: 2, H0352: 2, T0002: 1, H0222: 1, S0040: 1, H0716: 1, S0114: 1, H0583: 1, H0341: 1, S0212: 1, S0282: 1, H0483: 1, S0418: 1, S0420: 1.	2	
741	HEBG94	847065	751	158 - 313	3348	Glu-43 to Gly-49.			

742	HEBGM06	842527	752	26 - 148	3349	Pro-34 to Pro-40.	<p>L0534: 1, L0539: 1, L0619: 1, S0444: 1, H0580: 1, S0007: 1, S0046: 1, S0132: 1, L0717: 1, H0351: 1, H0431: 1, H0461: 1, H0586: 1, H0587: 1, H0333: 1, L0622: 1, L0623: 1, T0114: 1, H0013: 1, H0250: 1, L0021: 1, H0575: 1, H0706: 1, H0036: 1, T0071: 1, H0581: 1, H0421: 1, H0085: 1, H0596: 1, L0040: 1, H0012: 1, T0003: 1, H0024: 1, H0057: 1, S0362: 1, H0083: 1, H0060: 1, H0266: 1, H0039: 1, H0417: 1, H0628: 1, H0617: 1, H0032: 1, H0165: 1, H0674: 1, H0708: 1, H0068: 1, H0038: 1, H0087: 1, H0412: 1, H0056: 1, H0100: 1, H0561: 1, H0641: 1, S0472: 1, S0144: 1, H0529: 1, L0639: 1, L0800: 1, L0641: 1, L0768: 1, L0380: 1, L0499: 1, L0774: 1, L0775: 1, L0378: 1, L0806: 1, L0633: 1, L0526: 1, L0367: 1, L0791: 1, L0666: 1, L0663: 1, L0664: 1, S0428: 1, H0144: 1, T0068: 1, H0547: 1, H0593: 1, H0689: 1, H0711: 1, H0682: 1, H0658: 1, H0670: 1, H0672: 1, H0539: 1, S0378: 1, H0522: 1, S0406: 1, H0436: 1, H0631: 1, L0743: 1, L0786: 1, L0780: 1, S0031: 1, H0444: 1, L0596: 1, L0590: 1, L0608: 1, L0593: 1, L0361: 1, L0601: 1, S0106: 1, H0668: 1, S0026: 1, H0665: 1, S0242: 1, H0542: 1, S0424: 1 and H0506: 1.</p>
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743	HEEA58	834398	753	1157 - 1210	3350		1, H0620: 1, H0292: 1, H0428: 1, L0769: 1, L0637: 1, L0805: 1, L0789: 1, L0352: 1, H0658: 1, S0328: 1, S0330: 1, H0522: 1, L0743: 1, L0439: 1, L0747: 1 and L0780: 1. AR089: 12, AR316: 11, AR060: 9 L0748: 10, L0740: 9, S0002: 5, L0662: 5, L0776: 5, L0754: 5, H0622: 4, L0439: 4, L0749: 4, L0731: 4, L0603: 4, L0764: 3, L0747: 3, S0045: 2, H0587: 2, H0596: 2, H0264: 2, H0623: 2, L0666: 2, L0663: 2, H0144: 2, L0756: 2, L0758: 2, H0170: 1, H0265: 1, H0220: 1, H0650: 1, H0656: 1, L0785: 1, H0483: 1, H0255: 1, L0005: 1, S0354: 1, H0580: 1, H0619: 1, H0549: 1, H0550: 1, S0222: 1, H0600: 1, H0586: 1, H0331: 1, H0492: 1, H0486: 1, H0013: 1, H0156: 1, L0021: 1, H0036: 1, H0318: 1, H0581: 1, H0251: 1, H0327: 1, H0545: 1, H0009: 1, H0050: 1, H0012: 1, H0373: 1, H0355: 1, H0594: 1, H0687: 1, H0039: 1, T0023: 1, L0483: 1, H0644: 1, L0143: 1, S0366: 1, H0038: 1, H0488: 1, H0100: 1, H0494: 1, H0641: 1, S0142: 1, S0426: 1, L0762: 1, L0763: 1, L0770: 1, L0639: 1, L0761: 1, L0648: 1, L0774: 1, L0375: 1, L0806: 1, L0783: 1, L0788: 1, S0374: 1, H0693: 1, H0682: 1, H0648: 1, S0328: 1, H0539: 1, S0378: 1, H0518: 1, H0521: 1, S0146: 1, L0611: 1, S0014: 1, L0750:
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744	HEEA749	880521	754	38 - 163	3351			1, L0753: 1, H0445: 1, L0584: 1, H0542: 1, H0422: 1, S0412: 1, S0446: 1 and H0352: 1; 4, L0745: 4, L0766: 4, L0747: 4, L0750: 4, L0769: 3, L0809: 3, L0439: 3, L0771: 3, S0358: 2, H0333: 2, H0545: 2, L0770: 2, L0764: 2, L0803: 2, L0775: 2, L0530: 2, L0789: 2, S0328: 2, S0330: 2, H0696: 2, H0008: 2, H0170: 1, H0556: 1, T0002: 1, H0636: 1, L0785: 1, H0341: 1, H0483: 1, L0005: 1, S0007: 1, H0549: 1, L0623: 1, H0599: 1, H0052: 1, L0157: 1, L0471: 1, H0023: 1, H0615: 1, T0023: 1, H0031: 1, H0644: 1, L0055: 1, S0366: 1, S0036: 1, H0135: 1, H0063: 1, T0067: 1, H0560: 1, S0422: 1, L0371: 1, L0521: 1, L0766: 1, L0375: 1, L0805: 1, L0653: 1, L0661: 1, L0658: 1, L0526: 1, L0531: 1, L0367: 1, L0666: 1, L0663: 1, S0374: 1, H0520: 1, S0126: 1, S0190: 1, S0176: 1, H0436: 1, L0757: 1, L0758: 1, H0542: 1, H0543: 1, L0697: 1, L0600: 1 and H0352: 1;
745	HEEA746	637623	755	291 - 314	3352			H0171: 1, H0549: 1, L0790: 1 and S0152: 1; H0550: 1
746	HEGA720	825818	756	111 - 284	3353			AR252: 553, AR253: 279, AR245: 232, AR272: 216, AR246: 211, AR210: 184, AR197: 164, AR205: 159, AR308: 157, AR053: 151, AR212: 141, AR222: 140, AR250: 139, AR224: 138, AR243: 131, AR271: 131,
747	HEIAC52	826611	757	760 - 918	3354		His-23 to Leu-31, His-33 to Pro-41.	

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748	HELAC55	610078	758	188 - 304	3355				H0013: 1, H0233: 1, H0581: 1, S0049: 1, T0110: 1, H0597: 1, H0046: 1, L0471: 1, S0050: 1, H0014: 1, H0071: 1, H0290: 1, S0312: 1, S0314: 1, S0003: 1, S0022: 1, H0328: 1, H0622: 1, H0553: 1, H0644: 1, S0036: 1, H0100: 1, L0564: 1, H0561: 1, S0440: 1, H0647: 1, S0002: 1, L0796: 1, L0761: 1, L0374: 1, L0645: 1, L0521: 1, L0662: 1, L0649: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0652: 1, L0653: 1, L0776: 1, L0657: 1, L0809: 1, L0519: 1, L0545: 1, L0368: 1, L0788: 1, L0791: 1, L0792: 1, L4501: 1, L0532: 1, S0374: 1, T0068: 1, H0519: 1, H0435: 1, H0660: 1, H0666: 1, H0518: 1, H0521: 1, H0694: 1, H0214: 1, H0555: 1, S014: 1, S0027: 1, S0028: 1, L0744: 1, L0754: 1, L0745: 1, L0752: 1, L0731: 1, L0759: 1, S0031: 1, S0011: 1, H0665: 1, S0192: 1, S0194: 1, S0276: 1 and H0543: 1.
749	HELAT58	732199	759	215 - 283	3356				S0114: 1, S0045: 1, H0318: 1 and H0251: 1.
750	HELAW94	834796	760	182 - 229	3357				S0043: 1 H0250: 4, H0657: 2, H0305: 2, H0641: 2, H0519: 2, S0126: 2, H0521: 2, L0757: 2, H0423: 2, H0556: 1, S0114: 1, H0650: 1, S0045: 1, H0393: 1, H0069: 1, S0010: 1, H0581: 1, H0014: 1, H0266: 1, S0022: 1, S0214: 1, H0674: 1, H0090: 1, H0477: 1, H0268: 1, S0144: 1, L0637: 1, L0774: 1, L0651: 1, L0659:

751	HELD80	799522	761	37 - 69	3358		1, L0789: 1, L0790: 1, H0701: 1, H0699: 1, H0547: 1, H0672: 1 and H0543: 1. AR089: 23, AK316: 18, AR060: 14 L0748: 17, L0749: 14, H0038: 10, L0666: 9, H0547: 8, H0521: 8, L0758: 8, S0358: 7, S0003: 7, L0754: 7, L0485: 7, S0280: 6, H0040: 6, S3014: 6, L0777: 6, L0755: 6, S0116: 5, H0068: 5, L0639: 5, L0665: 5, S0027: 5, L0744: 5, L0740: 5, L0591: 5, H0657: 4, H0656: 4, H0013: 4, H0318: 4, H0266: 4, H0687: 4, H0031: 4, S0002: 4, S0206: 4, L0752: 4, H0445: 4, H0542: 4, H0423: 4, H0497: 3, H0427: 3, H0581: 3, H0046: 3, H0014: 3, H0615: 3, H0553: 3, L0142: 3, S0036: 3, H0090: 3, H0634: 3, H0616: 3, H0551: 3, H0623: 3, S0440: 3, L0662: 3, L0767: 3, H0144: 3, H0696: 3, S0028: 3, L0439: 3, L0731: 3, L0362: 3, S0196: 3, S0001: 2, H0662: 2, H0638: 2, H0580: 2, S0045: 2, S0222: 2, H0587: 2, H0574: 2, H0486: 2, H0706: 2, S0010: 2, S0346: 2, T0048: 2, S0474: 2, H0309: 2, H0620: 2, H0428: 2, L0483: 2, S0366: 2, H0488: 2, H0412: 2, L0763: 2, L0637: 2, L0667: 2, L0646: 2, L0768: 2, L0774: 2, L0657: 2, L0663: 2, S0374: 2, H0520: 2, H0519: 2, S0126: 2, H0435: 2, S0328: 2, S0152: 2, S0146: 2, H0555: 2, H0456: 2, L0747: 2, L0595: 2, S0026: 2, S0194: 2.	1p22	170995, 191540, 274270, 274270, 600309, 601414, 602094
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752	HELDH39	780536	762	1121 - 1252	3359			L0439: 8, L0777: 8, L0740: 5, S0420: 3, L0438: 3, L0751: 3, S0222: 2, L0776: 2, L0602: 2, S0136: 2, H0521: 2, S0432: 2, L0748: 2, H0423: 2, H0556: 1, S0114: 1, S0134: 1, S0116: 1, H0664: 1, L0430: 1, H0637: 1, H0580: 1, S0045: 1, H0370: 1, T0039: 1, H0013: 1, H0156: 1, S0010: 1, L0105: 1, H0009: 1, H0123: 1, H0083: 1, H0135: 1, S0002: 1, L0770: 1, L0796: 1, L0768: 1, L0794: 1, L0766: 1, L0649: 1, L0803: 1, L0805: 1, L0809: 1, L0666: 1, S0126: 1, H0436: 1, S0390: 1, S0028: 1, L0754: 1, L0756: 1, L0752: 1, L0758: 1 and H0543: 1, S0045: 1		3q21-q25	106165, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 222900, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682
753	HELDK79	532597	763	316 - 522	3360	Thr-49 to Pro-56.					
754	HELDQ42	695716	764	712 - 792	3361	Ser-11 to Ser-17.		AR089: 14, AR316: 13, AR060: 12, L0747: 11, L0776: 10, L0731: 9, H0144: 8, H0457: 7, H0305: 6, H0521: 6, L0745: 6, H0052: 5, L0750: 5, L0596: 5, H0170: 4, H0013: 4, S0010: 4, H0620: 4, L0766: 4, L0738: 4,	20q11.2-q12	139190, 139190, 224100, 600281, 600281, 601002, 601002, 601146, 601146, 601146	

755	HELE85	835457	765	75 - 107	3362				L0655: 1, L0634: 1, L0659: 1, L0783: 1, L0384: 1, L0809: 1, L0792: 1, L0666: 1, L0663: 1, L0665: 1, S0053: 1, H0520: 1, H0519: 1, S0328: 1, S0330: 1, H0539: 1, H0479: 1, S0037: 1, S3014: 1, L0741: 1, L0744: 1, L0749: 1, L0753: 1, L0755: 1, H0445: 1, L0589: 1, L0591: 1, L0599: 1, L0604: 1, L0594: 1, H0668: 1 and S0398: 1.
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756	HELE76	862490	766	165 - 821	3363	Thr-45 to Asp-62, Thr-108 to Phe-117, Asp-124 to Arg-135, Arg-188 to Asp-194, Leu-213 to Lys-218.	AR089: 30, AR316: 26, AR060: 22 H0584: 15, H0620: 10, H0617: 10, L0748: 10, H0599: 8, L0779: 8, L0752: 8, S0045: 7, S0046: 7, S0222: 7, H0052: 7, H0543: 7, S0358: 6, S0010: 6, H0539: 6, L0588: 6, H0265: 5, H0556: 5, H0550: 5, H0545: 5, H0100: 5, S0344: 5, H0672: 5, L0749: 5, H0255: 4, S0420: 4, H0549: 4, H0486: 4, H0618: 4, S0036: 4, H0551: 4, S0144: 4, L0775: 4, L0776: 4, L0809: 4, H0547: 4, S0152: 4, H0521: 4, L0741: 4, L0747: 4, L0777:	10	

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3, L0750: 3, L0596: 3, L0581:	
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2, H0257: 2, L0622: 2, S0346:	
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2, L0471: 2, H0024: 2, H0373:	
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1, S6016: 1, H0441: 1, H0330:	

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757	HELEI 76	839470	767	42 - 629	3364	<p>Thr-45 to Asp-62, Thr-108 to Phe-117, Asp-124 to Arg-135, Thr-187 to Gly-193.</p>	<p>AR089: 30, AR316: 26, AR060: 22 H0584: 15, H0620: 10, H0617: 10, L0748: 10, H0599: 8, L0779: 8, L0752: 8, S0045: 7, S0046: 7, S0222: 7, H0052: 7, H0543: 7, S0338: 6, S0010: 6, H0539: 6, L0588: 6, H0265: 5, H0556: 5, H0550: 5, H0545: 5, H0100: 5, S0344: 5, H0672: 5, L0749: 5, H0255: 4, S0420: 4, H0549: 4, H0486: 4, H0618: 4, S0036: 4, H0551: 4, S0144: 4, L0775: 4, L0776: 4, L0809: 4, H0547: 4, S0152: 4, H0521: 4, L0741: 4, L0747: 4, L0777: 4, L0757: 4, L0601: 4, H0713: 3, H0657: 3, H0341: 3, S0354: 3, H0333: 3, H0013: 3, H0427: 3, S0049: 3, H0050: 3, H0424: 3, H0031: 3, H0606: 3, H0040: 3, H0264: 3, T0042: 3, H0494: 3, H0529: 3, L0375: 3, L0657: 3, L0659: 3, S0037: 3, L0439: 3, L0750: 3, L0596: 3, L0581: 3, H0542: 3, S0424: 3, H0624: 2, H0716: 2, H0650: 2, H0254: 2, S0442: 2, S0376: 2, S0360: 2, H0580: 2, H0619: 2, H0393: 2, H0370: 2, H0438: 2, H0497: 2, H0257: 2, L0622: 2, S0346: 2, H0581: 2, H0046: 2, H0009: 2, L0471: 2, H0024: 2, H0373: 2, S0388: 2, S0051: 2, T0010: 2, H0288: 2, H0290: 2, H0039: 2, H0181: 2, H0673: 2, H0135: 2, H0087: 2, H0058: 2, H0268: 2, H0413: 2, H0059: 2, T0041: 2, H0561: 2, S0438: 2, H0132: 2, S0002: 2, L0772: 2, L0646:</p>
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758	HELE045	847067	768	80 - 145	3365				1, L0803: 1, L0774: 1, L0655: 1, L0606: 1, L0807: 1, L0658: 1, L0512: 1, L0636: 1, L0517: 1, L0518: 1, L0383: 1, L0519: 1, L0530: 1, L5623: 1, L0665: 1, L0703: 1, L0519: 1, L0126: 1, L0670: 1, L0330: 1, L0350: 1, L0522: 1, L0696: 1, L0044: 1, L0540: 1, L0390: 1, L0028: 1, L0742: 1, L0743: 1, L0751: 1, L0754: 1, L0786: 1, L0731: 1, L0758: 1, L0031: 1, L0260: 1, L0587: 1, L0485: 1, L0599: 1, L0106: 1, L0026: 1, L0653: 1, L0667: 1, L0506: 1 and L0462: 1.	2q21.1-q21.3	256030	
759	HELFA57	845981	769	118 - 174	3366	Gly-1 to Lys-6.			1, L0803: 1, L0774: 1, L0655: 1, L0606: 1, L0807: 1, L0658: 1, L0512: 1, L0636: 1, L0517: 1, L0518: 1, L0383: 1, L0519: 1, L0530: 1, L5623: 1, L0665: 1, L0703: 1, L0519: 1, L0126: 1, L0670: 1, L0330: 1, L0350: 1, L0522: 1, L0696: 1, L0044: 1, L0540: 1, L0390: 1, L0028: 1, L0742: 1, L0743: 1, L0751: 1, L0754: 1, L0786: 1, L0731: 1, L0758: 1, L0031: 1, L0260: 1, L0587: 1, L0485: 1, L0599: 1, L0106: 1, L0026: 1, L0653: 1, L0667: 1, L0506: 1 and L0462: 1.	2q21.1-q21.3	256030	

760	HELFO30	828202	770	607 - 732	3367		AR260: 4, AR172: 4, AR287: 4, AR168: 4, AR104: 4, AR230: 4, AR205: 4, AR225: 4, AR227: 4, AR190: 4, AR283: 4, AR060: 4, AR250: 4, AR232: 3, AR254: 3, AR033: 3, AR061: 3, AR256: 3, AR246: 3, AR216: 3, AR221: 3, AR224: 3, AR055: 2, AR171: 2, AR211: 2, AR210: 1, AR169: 1 H0052: 2, S0192: 2, L0460: 1, S0116: 1, L0534: 1, L0539: 1, S0045: 1, H0619: 1, H0645: 1, H0036: 1, H0596: 1, H0620: 1, H0024: 1, S0388: 1, H0670: 1, H0672: 1 and H0539: 1.		
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761	HELGF28	740782	771	255 - 320	3368		AR162: 9, AR161: 9, AR163: 9, AR271: 7, AR263: 7, AR089: 6,		

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AR207: 6, AR309: 6, AR312: 6, AR364: 6, AR165: 6, AR197: 6, AR213: 6, AR164: 5, AR250: 5, AR275: 5, AR166: 5, AR272: 5, AR198: 5, AR039: 5, AR242: 5, AR243: 5, AR274: 5, AR311: 5, AR282: 5, AR204: 5, AR195: 4, AR201: 4, AR193: 4, AR212: 4, AR221: 4, AR308: 4, AR053: 4, AR192: 4, AR254: 3, AR253: 3, AR060: 3, AR104: 3, AR096: 3, AR277: 3, AR283: 3, AR205: 3, AR185: 2, AR299: 2, AR313: 2, AR215: 2, AR247: 2, AR246: 2, AR316: 2, AR240: 2, AR225: 2, AR300: 2, AR033: 2, AR176: 2, AR055: 1, AR217: 1, AR222: 1, AR061: 1, AR224: 1, AR296: 1, AR291: 1 L0731: 6, L0769: 5, L0748: 3, L0740: 3, L0599: 3, H0556: 2, H0656: 2, H0255: 2, H0046: 2, L0163: 2, H0031: 2, H0553: 2, H0644: 2, H0494: 2, S0002: 2, L0766: 2, L0790: 2, L0664: 2, L0438: 2, S0330: 2, L0754: 2, L0747: 2, L0362: 2, H0542: 2, H0650: 1, H0254: 1, S0442: 1, S0045: 1, H0619: 1, H0431: 1, H0370: 1, L0622: 1, H0250: 1, L0021: 1, T0082: 1, S0049:
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762	HELGP60	580822	772	171 - 260	3369	Met-1 to Lys-6.	1, H0597: 1, H0123: 1, H0375: 1, H0416: 1, H0032: 1, L0455: 1, H0591: 1, H0038: 1, H0616: 1, L0764: 1, L0768: 1, L0774: 1, L0803: 1, L0809: 1, L0647: 1, L0789: 1, L0791: 1, H0144: 1, L0565: 1, H0519: 1, S0146: 1, L0744: 1, L0439: 1, L0749: 1, L0608: 1, L0604: 1 and L0593: 1.		
763	HELHN47	872795	773	935 - 1072	3370	Glu-35 to Phe-44.	S0045: 1, H0012: 1 and H0264: 1. AR253: 13, AR313: 13, AR162: 12, AR161: 12, AR163: 12, AR164: 11, AR165: 11, AR166: 10, AR269: 10, AR193: 9, AR176: 9, AR254: 9, AR183: 8, AR312: 8, AR270: 8, AR242: 8, AR196: 8, AR268: 8, AR173: 8, AR175: 8, AR191: 8, AR290: 8, AR089: 7, AR189: 7, AR300: 7, AR250: 7, AR255: 7, AR096: 7, AR266: 7, AR192: 6, AR240: 6, AR182: 6, AR174: 6, AR178: 6, AR275: 6, AR180: 6, AR169: 6, AR271: 6, AR245: 6, AR274: 6, AR291: 6, AR185: 6, AR190: 6, AR197: 6, AR229: 6, AR195: 6, AR238: 6, AR285: 6, AR257: 5, AR264: 5, AR204: 5, AR296: 5, AR200: 5, AR267: 5, AR198: 5, AR282: 5.	17q21.31-q21.33	109270, 109270, 109270, 109270, 120150, 120150, 120150, 148065, 148080, 154275, 171190, 185800, 221820, 249000, 253250, 600119, 600119, 600525, 601844

764	HELHP11	638064	774	293 - 409	3371		2, S0007: 2, T0082: 2, S0010: 2, H0251: 2, H0050: 2, T0003: 2, H0201: 2, H0090: 2, S0002: 2, L0761: 2, L0653: 2, L0783: 2, L0789: 2, L0665: 2, L0749: 2, L0779: 2, L0605: 2, H0265: 1, H0536: 1, H0344: 1, S0134: 1, S0212: 1, H0438: 1, S0348: 1, S0442: 1, S0358: 1, S0360: 1, S0408: 1, H0580: 1, S0045: 1, S0046: 1, H0393: 1, S0222: 1, H0441: 1, H0409: 1, H0612: 1, H0586: 1, S0005: 1, H0632: 1, H0486: 1, T0060: 1, H0318: 1, H0581: 1, H0009: 1, H0566: 1, H0012: 1, H0057: 1, S0388: 1, H0266: 1, H0031: 1, H0628: 1, H0032: 1, S0364: 1, L0455: 1, L0456: 1, S0366: 1, H0413: 1, H0059: 1, T0069: 1, T0041: 1, H0561: 1, H0131: 1, S0150: 1, H0646: 1, H0538: 1, S0422: 1, S0426: 1, L0371: 1, L0769: 1, L0637: 1, L0648: 1, L0521: 1, L0803: 1, L0650: 1, L0774: 1, L0776: 1, L0493: 1, L0659: 1, L0636: 1, L0542: 1, L0664: 1, L0438: 1, L0352: 1, H0547: 1, H0593: 1, S0126: 1, H0672: 1, H0539: 1, S0152: 1, S0136: 1, H0522: 1, H0696: 1, H0704: 1, S0404: 1, S0406: 1, S0028: 1, L0743: 1, L0751: 1, L0745: 1, L0750: 1, L0756: 1, H0707: 1, L0591: 1, L0366: 1, H0667: 1, H0543: 1, H0423: 1 and S0446: 1.
764	HELHP11	638064	774	293 - 409	3371		H0305: 4, S0045: 1, L0666: 1 and H0444: 1.
765	HELHP11	851116	775	293 - 409	3372		H0305: 4, S0045: 1, L0666: 1

766	HEMAE30	866169	776	169 - 261	3373	and H0444: 1. AR089: 11, AR316: 8, AR060: 5 1, L0731: 9, L0754: 6, S0422: 5, L0805: 5, L0756: 5, L0766: 4, S0406: 4, H0436: 4, L0439: 4, S0376: 3, S0444: 3, L0771: 3, L0794: 3, L0803: 3, L0655: 3, L0665: 3, H0521: 3, L0755: 3, S0003: 2, L0763: 2, L0776: 2, L0657: 2, L0515: 2, L0438: 2, H0547: 2, H0696: 2, L0740: 2, L0779: 2, L0757: 2, L0758: 2, L0591: 2, L0361: 2, H0170: 1, T0002: 1, S0114: 1, H0583: 1, S0212: 1, H0125: 1, S0348: 1, S0408: 1, H0208: 1, S0046: 1, S0476: 1, H0486: 1, H0581: 1, L0738: 1, H0544: 1, H0057: 1, H0373: 1, H0179: 1, H0687: 1, H0092: 1, H0553: 1, H0674: 1, H0090: 1, H0412: 1, L5575: 1, L0646: 1, L0764: 1, L0662: 1, L0804: 1, L0650: 1, L0774: 1, L0775: 1, L0606: 1, L0656: 1, L0809: 1, L0788: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, H0691: 1, H0682: 1, S0404: 1, L0751: 1, L0747: 1, L0759: 1, S0434: 1, L0605: 1, L0595: 1, S0242: 1, H0542: 1 and H0506: 1.		
767	HEMBV40	847069	777	276 - 383	3374	AR060: 31, AR316: 31, AR089: 30 L0747: 16, L0731: 11, L0752: 9, L0758: 7, S0358: 6, H0457: 6, L0771: 6, L0764: 5, L0750: 5, L0622: 4, L0774: 4, L0776: 4, L0623: 3, H0486: 3, L0772: 3, L0775: 3, L0809: 3,		

768	HEMCJ80	765041	778	323 - 559	3375				L0757: 3, L0759: 3, H0170: 2, H0373: 2, H0708: 2, L0763: 2, L0770: 2, L0769: 2, L0773: 2, L0375: 2, L0748: 2, L0749: 2, L0755: 2, L0605: 2, H0556: 1, S0024: 1, H0657: 1, H0638: 1, S0360: 1, S0408: 1, H0152: 1, S0046: 1, H0639: 1, H0587: 1, H0003: 1, H0004: 1, H0581: 1, H0263: 1, H0544: 1, H0057: 1, H0355: 1, H0375: 1, H0328: 1, L0055: 1, S0364: 1, T0067: 1, H0413: 1, H0512: 1, S0438: 1, S0440: 1, L0598: 1, L0640: 1, L0789: 1, H0690: 1, H0435: 1, H0659: 1, H0670: 1, S0380: 1, H0710: 1, H0521: 1, L0751: 1, L0754: 1, L0777: 1, L0780: 1, L0599: 1 and H0422: 1. AR089: 11, AR316: 9, AR060: 7 H0521: 4, L0803: 3, L0439: 3, S0046: 2, H0488: 2, L0747: 2, L0758: 2, L0759: 2, H0556: 1, H0685: 1, H0657: 1, S0418: 1, S0360: 1, H0632: 1, H0486: 1, L0021: 1, H0618: 1, S0474: 1, H0421: 1, H0457: 1, H0014: 1, H0266: 1, H0622: 1, T0041: 1, H0561: 1, L0770: 1, L0761: 1, L0667: 1, L0372: 1, L0800: 1, L0662: 1, L0794: 1, L0804: 1, L0805: 1, L0789: 1, L0666: 1, H0520: 1, H0659: 1, H0672: 1, H0539: 1, L0740: 1, L0750: 1, L0779: 1, L0777: 1, L0752: 1, L0599: 1, L0603: 1, S0026: 1, H0543: 1 and H0422: 1. S0046: 1 S0046: 1 and L0763: 1.	103850, 114835, 116800, 140100, 140100, 192090, 192090, 192090, 192090, 245900, 245900, 276600, 600223
769	HEMCL55	581049	779	270 - 296	3376					
770	HEMDB07	617137	780	99 - 203	3377		Met-26 to Glu-34.			

771	HEMDR05	613273	781	92 - 322	3378	Arg-21 to Asp-33, Pro-41 to Gly-56, Asp-67 to Gly-75.	L0483: 2, H0657: 1, S0046: 1, H0510: 1, H0412: 1, L0769: 1, L0648: 1, L0363: 1, H0521: 1, H0696: 1, L0750: 1, L0777: 1 and L0780: 1.	18	
772	HEMGK71	847374	782	234 - 272	3379		H0444: 2, S0046: 1, L0764: 1, L0526: 1 and S0028: 1.		
773	HEOMF59	583518	783	21 - 170	3380		L0599: 2, H0457: 1 and T0041: 1.		
774	HEOMI73	821327	784	148 - 210	3381		L0803: 4, L0756: 4, L0777: 4, S0242: 4, H0171: 2, S0212: 2, S0222: 2, S0010: 2, S0250: 2, H0144: 2, L0731: 2, H0170: 1, H0341: 1, L0021: 1, H0581: 1, H0457: 1, H0563: 1, H0567: 1, S0050: 1, S0214: 1, S0366: 1, H0551: 1, T0004: 1, S0038: 1, S0112: 1, H0538: 1, L0796: 1, L0768: 1, L0774: 1, L0659: 1, L0530: 1, L0666: 1, H0445: 1, L0366: 1 and H0506: 1.		
775	HEOMR67	833054	785	216 - 308	3382		L0748: 13, L0777: 10, L0803: 8, L0754: 6, L0804: 5, H0052: 4, H0457: 4, L0766: 4, L0740: 4, L0752: 4, H0556: 3, H0179: 3, L0770: 3, L0662: 3, L0805: 3, L0776: 3, L0756: 3, H0587: 2, H0620: 2, H0264: 2, S0210: 2, L0769: 2, L0794: 2, L0666: 2, L0665: 2, H0435: 2, H0670: 2, H0521: 2, L0744: 2, L0749: 2, L0731: 2, L0596: 2, S0196: 2, H0583: 1, H0255: 1, H0663: 1, H0662: 1, S0420: 1, S0007: 1, S0278: 1, H0549: 1, H0550: 1, H0612: 1, H0600: 1, H0632: 1, H0486: 1, S0280: 1, H0251: 1, H0263: 1, H0231: 1, L0738: 1, L0157: 1, H0050: 1, H0271: 1, H0719: 1, S0214: 1.		

776	HEOMU25	732063	786	84 - 188	3383				H0622: 1, H0038: 1, H0551: 1, H0560: 1, S0002: 1, S0426: 1, L0536: 1, L3904: 1, L0646: 1, L0641: 1, L0764: 1, L0771: 1, L0768: 1, L0774: 1, L0775: 1, L0493: 1, L0659: 1, L0783: 1, L0809: 1, L0647: 1, L5623: 1, L0787: 1, L0663: 1, T0068: 1, S0126: 1, H0689: 1, S0044: 1, S0406: 1, S0037: 1, L0747: 1, L0757: 1, L0759: 1, S0434: 1, L0597: 1 and H0506: 1. L0748: 4, H0457: 3 and S06022: 1.
777	HEOMU44	778085	787	167 - 253	3384			4	AR089: 4, AR316: 3, AR060: 2 L0751: 13, L0748: 7, L0662: 6, L0766: 6, L0771: 5, L0794: 5, H0040: 3, L0764: 3, L0803: 3, L0666: 3, S0404: 3, L0747: 3, L0731: 3, H0486: 2, H0644: 2, H0551: 2, H0488: 2, L0665: 2, S0328: 2, L0754: 2, L0749: 2, L0758: 2, L0591: 2, L0601: 2, H0624: 1, H0265: 1, H0686: 1, H0341: 1, H0661: 1, H0402: 1, S0356: 1, L0717: 1, H0587: 1, H0013: 1, H0244: 1, H0036: 1, S0010: 1, S0049: 1, H0263: 1, H0457: 1, S0051: 1, H0188: 1, S0003: 1, S0214: 1, H0674: 1, H0212: 1, H0494: 1, L0369: 1, L0639: 1, L0667: 1, L0643: 1, L0774: 1, L0806: 1, L0653: 1, L0658: 1, L0809: 1, H0144: 1, H0547: 1, H0682: 1, H0683: 1, H0684: 1, H0659: 1, H0672: 1, H0651: 1, S0378: 1, S0152: 1, S0350: 1, H0521: 1, H0696: 1, S0406: 1, H0436: 1, S0434:

778	HEON185	566833	788	136 - 249	3385			1, L0595: 1, H0542: 1, H0423: 1, H0422: 1, S0398: 1 and S0424: 1. L0766: 1, H0255: 3, S0114: 2, H0254: 2, H0445: 2, H0584: 1, H0107: 1, H0661: 1, H0402: 1, H0589: 1, H0597: 1, H0457: 1, H0087: 1, L0769: 1, L0761: 1, L0803: 1, L0805: 1, L0655: 1, L0659: 1, L0790: 1, L0754: 1, L0779: 1, H0542: 1 and H0543: 1.			
779	HEONK04	658682	789	64 - 159	3386			S0474: 35, H0457: 17, H0677: 9, L0749: 6, H0581: 4, L0748: 4, S0116: 3, L0766: 3, L0775: 3, H0521: 3, H0656: 2, H0486: 2, H0090: 2, H0529: 2, L0761: 2, L0667: 2, H0701: 2, L0739: 2, H0458: 1, S0358: 1, H0580: 1, H0619: 1, H0645: 1, H0610: 1, H0099: 1, H0598: 1, H0264: 1, S0144: 1, S0422: 1, S0002: 1, S0426: 1, L0764: 1, LS574: 1, L0774: 1, L0375: 1, L0635: 1, L0661: 1, L0659: 1, L0665: 1, S0032: 1, L0702: 1, S0374: 1, H0660: 1, H0648: 1, H0539: 1, H0522: 1, L0779: 1, L0755: 1, L0731: 1, H0444: 1, H0543: 1 and H0423: 1.	12q13		10777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153
780	HEONP08	601691	790	38 - 259	3387	Ser-11 to Ser-25, Ser-36 to Val-65.		H0457: 4, L0748: 2 and L0777: 1.			
781	HEPAD15	587299	791	223 - 345	3388			L0775: 3, H0150: 1 and T0067: 1.			
782	HEPBC23	799985	792	123 - 149	3389			L0748: 1, L0779: 6, H0632: 3, L0803: 3, L0750: 3, L0755: 3, L0758: 3, H0624: 2, H0574: 2, L0605: 2, H0171: 1, H0431: 1, H0013: 1, H0150: 1, L0774: 1.	3p21		139330, 139360, 150250, 164500, 182280, 600163, 600971, 601226, 601267, 601373

783	HEPBV09	588404	793	294 - 416	3390		1, L0665: 1, L0747: 1, L0752: 1 and L0581: 1.		
784	HEPCI35	603521	794	259 - 372	3391		L0521: 2, L0752: 2, L0758: 2, X and H0150: 1.		
785	HEPCU48	805585	795	1218 - 1493	3392		S0049: 1, H0150: 1 and L0766: 1.	9q34.1	103000, 114350, 120900, 131195, 185000, 189980, 600184, 602575, 602575
							AR242: 3, AR180: 3, AR039: 3, AR213: 3, AR224: 3, AR176: 3, AR170: 3, AR245: 3, AR169: 3, AR282: 3, AR161: 3, AR171: 3, AR225: 3, AR195: 2, AR215: 2, AR214: 2, AR053: 2, AR269: 2, AR308: 2, AR165: 2, AR271: 2, AR164: 2, AR196: 2, AR033: 2, AR166: 2, AR168: 2, AR204: 2, AR261: 2, AR222: 2, AR309: 2, AR291: 1, AR096: 1, AR183: 1, AR193: 1, AR268: 1, AR277: 1, AR162: 1, AR293: 1, AR243: 1, AR163: 1, AR240: 1, AR255: 1, AR178: 1, AR232: 1, AR089: 1, AR239: 1, L0803: 9, L0740: 9, L0769: 6, L0794: 5, L0805: 5, L0439: 5, L0518: 4, H0059: 3, L0809: 3, L0757: 3, H0550: 2, S0222: 2, H0497: 2, H0618: 2, H0620: 2, S0051: 2, L0638: 2, L0747: 2, L0750: 2, L0596: 2, L0605: 2, H0265: 1, H0583: 1, H0381: 1, S0282: 1, H0254: 1, H0255: 1, S0418: 1, S0360: 1, S0007: 1, H0486: 1, H0156: 1, H0052: 1.		

786	HEQAH47	877634	796	22 - 168	3393	Gly-30 to Ser-37.	1, H0263: 1, H0545: 1, H0457: 1, H0150: 1, H0050: 1, T0010: 1, H0083: 1, H0286: 1, H0428: 1, H0418: 1, H0673: 1, S0036: 1, H0551: 1, H0264: 1, H0494: 1, H0130: 1, L0770: 1, L0761: 1, L0646: 1, L0800: 1, L0662: 1, L0768: 1, L0774: 1, L0775: 1, L0776: 1, L0807: 1, L0659: 1, L0787: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0520: 1, H0682: 1, H0521: 1, H0478: 1, L0751: 1, L0755: 1, L0731: 1, L0759: 1, L0592: 1, L0608: 1, L0366: 1 and S0192: 1. L0809: 14, H0545: 10, L0731: 9, L0659: 8, L0794: 7, H0544: 5, L0662: 4, H0551: 3, L0777: 3, H0550: 2, H0486: 2, H0706: 2, L0639: 2, L0800: 2, L0648: 2, L0768: 2, L0666: 2, L0663: 2, L0751: 2, L0779: 2, H0717: 1, S0356: 1, S0360: 1, H0601: 1, H0581: 1, H0546: 1, H0123: 1, L0769: 1, L0761: 1, L0772: 1, L0641: 1, L0773: 1, L0803: 1, L0375: 1, L0806: 1, L0657: 1, L0658: 1, L0664: 1, H0660: 1, S0378: 1, H0696: 1, L0747: 1, L0750: 1, H0543: 1 and H0352: 1. AR060: 8, AR316: 7, AR089: 5 L0803: 9, L0794: 6, L0752: 6, L0664: 5, L0777: 5, S0003: 4, L0731: 4, H0497: 3, L0666: 3, H0208: 2, L0766: 2, L0804: 2, L0659: 2, H0521: 2, L0439: 2, L0749: 2, L0596: 2, H0663: 1, S0222: 1, H0455: 1, H0013: 1	2p23.3-p23.2	176830, 176830, 182601, 229800, 602134
787	HEQAP92	637608	797	843 - 974	3394		AR060: 8, AR316: 7, AR089: 5 L0803: 9, L0794: 6, L0752: 6, L0664: 5, L0777: 5, S0003: 4, L0731: 4, H0497: 3, L0666: 3, H0208: 2, L0766: 2, L0804: 2, L0659: 2, H0521: 2, L0439: 2, L0749: 2, L0596: 2, H0663: 1, S0222: 1, H0455: 1, H0013: 1	9p24	133550, 164759

788	HEQAV53	722016	798	130 - 246	3395		1, H0156: 1, S0010: 1, H0581: 1, H0544: 1, H0046: 1, H0566: 1, H0031: 1, H0553: 1, H0059: 1, H0494: 1, L0768: 1, L0774: 1, L0776: 1, L0527: 1, L0809: 1, L0789: 1, L0790: 1, L0665: 1, S0330: 1, H0696: 1, L0747: 1, L0755: 1, L0758: 1, S0031: 1, S0434: 1, L0608: 1, S0194: 1 and H0542: 1.		
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789	HEQB101	834633	799	505 - 564	3396		AK089: 9, AK316: 7, AK060: 5 L0439: 8, L0758: 7, L0777: 5, L0794: 4, L0804: 4, L0438: 4, L0747: 4, S0360: 3, H0619: 3, H0031: 3, H0616: 3, L0803: 3, L0748: 3, L0755: 3, H0052: 2, H0628: 2, H0673: 2, H0038: 2, L0769: 2, L0766: 2, L0809: 2, L0666: 2, L0602: 2, L0759: 2, L0362: 2, H0686: 1, H0685: 1, H0656: 1, L0470: 1, S0356: 1, S0358: 1, H0393: 1, H0437: 1, H0453: 1, T0039: 1, H0156: 1, H0581: 1, T0110: 1, H0544: 1, H0046: 1, H0570: 1, H0081: 1		

790	HEQB101	861786	800	2603 - 2662	3397				1, S0051: 1, H0355: 1, H0510: 1, H0266: 1, L0455: 1, H0163: 1, H0511: 1, H0100: 1, L0370: 1, H0561: 1, H0647: 1, H0529: 1, L0369: 1, L0763: 1, L0770: 1, L0667: 1, L0772: 1, L0646: 1, L0800: 1, L0764: 1, L0768: 1, L0776: 1, L0517: 1, L0789: 1, L0790: 1, L0663: 1, H0144: 1, H0672: 1, S0152: 1, H0696: 1, H0436: 1, S0027: 1, L0749: 1, L0779: 1, L0752: 1, L0757: 1, H0595: 1, L0593: 1, S0026: 1, S0194: 1 and H0677: 1.		
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791	HEQB01	876546	801	2603 - 2662	3398			1, H0436: 1, S0027: 1, L0749: 1, L0779: 1, L0752: 1, L0757: 1, H0595: 1, L0593: 1, S0026: 1, S0194: 1 and H0677: 1. AR089: 9, AR316: 7, AR060: 5 L0439: 8, L0758: 7, L0777: 5, L0794: 4, L0804: 4, L0438: 4, L0747: 4, S0360: 3, H0619: 3, H0031: 3, H0616: 3, L0803: 3, L0748: 3, L0755: 3, H0052: 2, H0628: 2, H0673: 2, H0038: 2, L0769: 2, L0766: 2, L0809: 2, L0666: 2, L0602: 2, L0739: 2, L0362: 2, H0686: 1, H0685: 1, H0656: 1, L0470: 1, S0356: 1, S0358: 1, H0393: 1, H0437: 1, H0453: 1, T0039: 1, H0156: 1, H0581: 1, T0110: 1, H0544: 1, H0046: 1, H0570: 1, H0081: 1, S0051: 1, H0355: 1, H0510: 1, H0266: 1, L0455: 1, H0163: 1, H0551: 1, H0100: 1, L0370: 1, H0561: 1, H0647: 1, H0529: 1, L0369: 1, L0763: 1, L0770: 1, L0667: 1, L0772: 1, L0646: 1, L0800: 1, L0764: 1, L0768: 1, L0776: 1, L0517: 1, L0789: 1, L0790: 1, L0663: 1, H0144: 1, H0672: 1, S0152: 1, H0696: 1, H0436: 1, S0027: 1, L0749: 1, L0779: 1, L0752: 1, L0757: 1, H0595: 1, L0593: 1, S0026: 1, S0194: 1 and H0677: 1.
792	HEQB04	580823	802	76 - 480	3399	Lys-38 to Lys-46, Arg-83 to Thr-90.		L0766: 4, L0591: 4, H0657: 2, H0593: 2, L0759: 2, L0596: 2, H0656: 1, H0484: 1, S0418: 1, S0420: 1, S0356: 1, H0587: 1, H0544: 1, H0135: 1, L0667: 1, L0800: 1, L0771: 1, L0768: 1.

799	HETBB70	738530	809	263 - 316	3406				1, T0006: 1, H0032: 1, H0673: 1, S0440: 1, L0772: 1, L0372: 1, L0764: 1, L0775: 1, L0375: 1, L0527: 1, L0518: 1, L0384: 1, S0148: 1, H0672: 1, H0539: 1, L0747: 1, L0756: 1, L0779: 1, L0755: 1, L0758: 1 and L0589: 1.		
800	HETB188	855937	810	183 - 407	3407	Glu-2 to Leu-13, Gly-61 to Lys-73.			H0046: 8, L0369: 1, H0519: 1, L0779: 1 and H0444: 1, AR231: 9, AR254: 9, AR237: 8, AR197: 8, AR238: 7, AR195: 7, AR242: 7, AR250: 7, AR272: 7, AR198: 6, AR245: 6, AR228: 6, AR268: 6, AR033: 6, AR239: 6, AR178: 6, AR053: 5, AR161: 5, AR212: 5, AR182: 5, AR226: 5, AR162: 5, AR177: 5, AR290: 5, AR163: 5, AR234: 5, AR181: 5, AR267: 5, AR104: 5, AR246: 5, AR230: 5, AR309: 5, AR229: 5, AR204: 4, AR233: 4, AR311: 4, AR270: 4, AR205: 4, AR264: 4, AR214: 4, AR096: 4, AR263: 4, AR243: 4, AR180: 4, AR289: 4, AR266: 4, AR225: 4, AR176: 4, AR222: 4, AR213: 4, AR269: 4, AR199: 4, AR203: 4, AR200: 4, AR201: 4, AR240: 4, AR271: 4, AR188: 4, AR275: 4, AR300: 4,	1q43	

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801	HETCM67	861909	811	14 - 1318	3408	<p>His-9 to Cys-16, Glu-79 to Cys-89, Pro-127 to Asp-133, Cys-138 to Asn-144, Pro-146 to Gln-151, Pro-156 to Gly-162, Ser-190 to Gly-202, Thr-247 to Ser-254, Gly-263 to Asp-268, Lys-282 to Gly-295, Gln-349 to Leu-362, Thr-364 to Gln-377, Gln-383 to His-393, Glu-400 to Ala-406, Phe-408 to Ala-414, Phe-420 to Ala-435.</p>	<p>1, H0645: 1, H0574: 1, H0486: 1, H0013: 1, S0010: 1, H0251: 1, H0327: 1, H0046: 1, L0041: 1, H0510: 1, S0214: 1, H0328: 1, H0030: 1, H0553: 1, H0644: 1, H0032: 1, S0344: 1, S0002: 1, L0369: 1, L0667: 1, L0364: 1, L0803: 1, L0775: 1, L0776: 1, L0789: 1, L0666: 1, L0663: 1, L0438: 1, H0519: 1, H0670: 1, H0521: 1, L0744: 1, L0439: 1, L0747: 1, L0779: 1 and L0591: 1.</p>	<p>AR248: 17, AR249: 15, AR213: 10, AR052: 8, AR251: 7, AR053: 6, AR253: 6, AR263: 5, AR235: 5, AR169: 5, AR273: 4, AR296: 4, AR186: 4, AR265: 4, AR243: 4, AR300: 4, AR198: 4, AR202: 4, AR204: 4, AR206: 3, AR310: 3, AR060: 3, AR241: 3, AR096: 3, AR244: 3, AR299: 3, AR225: 3, AR270: 3, AR214: 3, AR292: 3, AR055: 3, AR061: 3, AR283: 3, AR089: 3, AR192: 3, AR295: 3, AR267: 2, AR185: 2, AR171: 2, AR316: 2, AR284: 2, AR194: 2, AR039: 2, AR286: 2, AR205: 2, AR282: 2, AR268: 2, AR182: 2, AR269: 2, AR309: 2, AR033: 2, AR313: 2, AR290: 2, AR175: 2.</p>	8	
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802	HETDD61	800668	812	148 - 246	3409		AR271: 2, AR266: 2, AR223: 2, AR247: 2, AR312: 2, AR168: 2, AR184: 2, AR246: 2, AR183: 2, AR285: 2, AR104: 2, AR240: 2, AR298: 2, AR294: 1, AR277: 1, AR275: 1, AR258: 1, AR274: 1, AR172: 1, AR229: 1, AR226: 1, AR231: 1, AR177: 1, AR264: 1, AR176: 1, AR289: 1, AR195: 1, AR161: 1, AR233: 1, AR256: 1, AR162: 1, AR291: 1, AR163: 1, AR287: 1, AR232: 1, AR237: 1, AR259: 1, AR170: 1, AR257: 1 S0360: 6, L0766: 3, H0580: 2, H0457: 2, L0666: 2, H0650: 1, H0638: 1, H0004: 1, H0014: 1, S0112: 1, S0002: 1, H0529: 1 and L0659: 1.		
803	HETDD61	852381	813	148 - 246	3410		H0046: 3, L0756: 3, L0749: 2, H0672: 1 and L0779: 1. H0046: 5, L0756: 3, L0749: 2, H0672: 1 and L0779: 1.		
804	HETDD34	637614	814	64 - 147	3411		L0805: 5, S0422: 4, L0731: 4, L0766: 3, L0803: 3, L0527: 3, L0743: 3, L0717: 2, H0046: 2, L0745: 2, L0597: 2, S0356: 1, S0360: 1, H0351: 1, S0222: 1, H0013: 1, H0546: 1, S0050: 1, S0003: 1, T0006: 1, H0412: 1, L0520: 1, L0763: 1, L0637: 1, L0761: 1, L0768: 1, L0804: 1, L0776: 1, L0526: 1, L0790: 1, L0665: 1, H0144: 1, H0520: 1	21q11	

805	HETDM73	847071	815	177 - 221	3412		<p>1, H0539: 1, S0378: 1, L0754: 1, L0779: 1, L0780: 1, L0759: 1, S0242: 1 and H0542: 1.</p> <p>AR089: 44, AR316: 24, AR060: 5</p> <p>H0046: 6, L0666: 6, L0662: 5, L0809: 4, L0664: 4, L0771: 4, S0360: 3, L0483: 3, L0764: 3, L0649: 3, L0663: 3, S0328: 3, S0354: 2, H0550: 2, H0586: 2, H0587: 2, H0263: 2, H0032: 2, L0648: 2, L0805: 2, L0518: 2, L0665: 2, S0374: 2, H0696: 2, H0478: 2, L0596: 2, H0686: 1, H0638: 1, S0356: 1, S0376: 1, H0431: 1, H0592: 1, H0013: 1, H0596: 1, S0003: 1, H0615: 1, H0622: 1, H0212: 1, S0448: 1, H0131: 1, H0646: 1, L0763: 1, L0761: 1, L0372: 1, L0800: 1, L0773: 1, L0381: 1, L0803: 1, L0527: 1, L0519: 1, L0543: 1, S0148: 1, H0690: 1, H0682: 1, H0670: 1, S0330: 1, H0522: 1, S0190: 1, L0744: 1, L0752: 1, L0599: 1 and S0026: 1.</p> <p>AR089: 30, AR316: 28, AR060: 27</p> <p>H0046: 9, S0250: 3, H0031: 3, L0744: 3, L0748: 3, L0758: 3, H0618: 2, L0766: 2, L0659: 2, L0809: 2, L0747: 2, L0756: 2, L0779: 2, L0771: 2, L0596: 2, H0352: 2, H0556: 1, H0140: 1, H0341: 1, H0662: 1, S0356: 1, S0358: 1, H0013: 1, H0253: 1, H0581: 1, H0545: 1, H0563: 1, H0584: 1, H0616: 1, H0488: 1, S0038: 1, L0770: 1, L0769: 1, L0796: 1, L5575: 1, L0800: 1.</p>
806	HETDP76	782836	816	1323 - 1640	3413	Glu-17 to Ser-34.	

807	HETFO57	844190	817	195 - 305	3414	Gln-28 to Gly-36.	<p>1, L0642: 1, L0764: 1, L0662: 1, L0381: 1, L0805: 1, L0776: 1, L0655: 1, L0526: 1, L0790: 1, L4501: 1, L0532: 1, L0666: 1, L0665: 1, L0438: 1, H0519: 1, H0682: 1, H0648: 1, S0152: 1, H0521: 1, H0576: 1, L0743: 1, L0749: 1, L0750: 1, L0780: 1, L0757: 1, L0594: 1 and H0422: 1.</p> <p>AR089: 9, AR316: 8, AR060: 7</p> <p>L0766: 6, L0749: 6, L0794: 4, L0740: 4, L0803: 3, L0666: 3, L0777: 3, H0486: 2, S0003: 2, L0756: 2, L0779: 2, S0196: 2, H0543: 2, S0134: 1, S0046: 1, H0574: 1, S0346: 1, H0196: 1, H0052: 1, H0263: 1, H0046: 1, L0471: 1, H0266: 1, H0032: 1, H0316: 1, H0598: 1, H0591: 1, H0038: 1, H0616: 1, H0268: 1, H0560: 1, S0426: 1, L0761: 1, L0768: 1, L0388: 1, L0655: 1, L0607: 1, H0144: 1, H0547: 1, S0126: 1, S0330: 1, S0152: 1, L0748: 1, S0031: 1, L0591: 1, L0592: 1, L0595: 1 and S0242: 1.</p>	17			<p>1, L0642: 1, L0764: 1, L0662: 1, L0381: 1, L0805: 1, L0776: 1, L0655: 1, L0526: 1, L0790: 1, L4501: 1, L0532: 1, L0666: 1, L0665: 1, L0438: 1, H0519: 1, H0682: 1, H0648: 1, S0152: 1, H0521: 1, H0576: 1, L0743: 1, L0749: 1, L0750: 1, L0780: 1, L0757: 1, L0594: 1 and H0422: 1.</p>
808	HETGZ31	847072	818	127 - 192	3415		<p>AR089: 22, AR316: 16, AR060: 11</p> <p>L0748: 10, S0476: 6, H0547: 6, L0439: 6, L0754: 6, H0556: 5, H0013: 5, H0052: 5, S0418: 4, H0046: 4, H0024: 4, L0662: 4, L0766: 4, L0657: 4, L0666: 4, H0144: 4, L0779: 4, L0593: 4, H0602: 3, S0358: 3, S0440: 3, L0520: 3, H0659: 3, H0648: 3, L0755: 3, L0731: 3, L0759: 3.</p>	16			

[illegible]

809	HE/THD26	771521	819	229 - 318	3416	AR089: 11, AR316: 9, S0424: 1,	3, S0384: 3, H0171: 2, H0265: 2, H0294: 2, S0282: 2, H0638: 2, S0045: 2, H0156: 2, H0051: 2, H0266: 2, H0252: 2, H0039: 2, H0617: 2, H0616: 2, H0488: 2, L0770: 2, L0776: 2, L0783: 2, L0663: 2, L0438: 2, H0519: 2, L0749: 2, L0757: 2, L0588: 2, L0485: 2, S0011: 2, H0352: 2, H0624: 1, H0685: 1, S0360: 1, S0408: 1, H0208: 1, S0046: 1, H0393: 1, S6014: 1, H0370: 1, H0600: 1, H0587: 1, H0244: 1, L0021: 1, H0599: 1, H0575: 1, H0706: 1, S0010: 1, H0318: 1, H0581: 1, L0738: 1, H0545: 1, H0123: 1, L0471: 1, H0012: 1, H0292: 1, S0003: 1, S0022: 1, L0483: 1, H0644: 1, H0111: 1, H0673: 1, S0036: 1, H0135: 1, H0038: 1, H0268: 1, H0413: 1, H0059: 1, L0475: 1, H0560: 1, S0438: 1, S0150: 1, H0633: 1, L0640: 1, L0477: 1, L0796: 1, L0667: 1, L0772: 1, L0641: 1, L0374: 1, L0764: 1, L0773: 1, L0364: 1, L0389: 1, L0650: 1, L0775: 1, L0378: 1, L0655: 1, L0518: 1, L0664: 1, S0006: 1, H0520: 1, H0684: 1, H0658: 1, H0672: 1, S0328: 1, H0539: 1, L0602: 1, H0696: 1, S0406: 1, H0555: 1, H0345: 1, L0747: 1, L0777: 1, L0752: 1, S0260: 1, H0445: 1, H0707: 1, S0434: 1, L0597: 1, L0591: 1, L0599: 1, L0601: 1, H0653: 1, H0542: 1, H0543: 1, S0042: 1 and S0424: 1,	224112	123620, 138720,
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810	HETHM27	610080	820	121 - 213	3417		AR060: 8 H0556: 4, L0749: 4, L0438: 3, H0046: 2, H0457: 2, H0135: 2, L0741: 2, L0744: 2, L0747: 2, L0779: 2, L0777: 2, L0758: 2, H0624: 1, H0265: 1, H0686: 1, S0114: 1, H0657: 1, S0001: 1, H0497: 1, H0270: 1, H0013: 1, H0194: 1, H0024: 1, H0594: 1, H0674: 1, H0038: 1, H0059: 1, H0100: 1, L0774: 1, L0375: 1, L0805: 1, L0659: 1, L0783: 1, L0809: 1, L0663: 1, L0665: 1, H0639: 1, H0672: 1, L0743: 1, L0754: 1, L0786: 1 and H0543: 1.		145410, 231950, 239500, 275350, 600850
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811	HETH36	840363	821	252 - 407	3418	Pro-36 to Gln-48.	AR060: 37, AR316: 31, AR089: 24 S0358: 52, S0406: 46, S0442: 40, S0354: 40, S0408: 31, S0444: 29, S0374: 23, S0404: 17, L0803: 15, S0410: 13, S0434: 13, S0360: 10, H0590: 7, S0376: 6, L0664: 6, L0599: 6, S0440: 5, L0666: 5, S0330: 5, L0373: 4, L0662: 4, L0805: 4, H0575: 3, H0036: 3, H0597: 3, S0328: 3, L0744: 3, H0506: 3, H0042: 2, L0940: 2, L0374: 3.		

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812	HFAA117	607563	822	16 - 108	3419				S0204: 1					
813	HFAA145	784174	823	344 - 436	3420				AR060: 7, AR316: 7, AR089: 6 S0204: 1, H0306: 1, T0039: 1, H0052: 1, H0641: 1, L0553: 1, L0766: 1, L0518: 1 and L0608: 1.					
814	HFADE41	607557	824	233 - 253	3421				S0204: 1					
815	HFAADM09	899435	825	236 - 355	3422				H0052: 2, H0591: 2, L0439: 2, L0754: 2, H0220: 1, S0204: 1, S0116: 1, S0222: 1, H0587: 1, H0574: 1, S0280: 1, H0023: 1, H0320: 1, H0179: 1, S0214: 1, S0448: 1, L0803: 1, L0438: 1, H0670: 1, H0539: 1, L0777: 1 and H0422: 1.					
816	HFAUA23	636071	826	52 - 222	3423			Pro-49 to Pro-56.	H0556: 2, H0519: 2, L0749: 2, H0661: 1, S0300: 1, S0010: 1, H0050: 1, H0090: 1, T0041: 1, L0794: 1, L0438: 1 and H0521: 1.					
817	HFCAG75	834834	827	153 - 287	3424			Leu-133 to Leu-143, Ala-205 to Thr-210, Thr-225 to Lys-230, Leu-258 to Tyr-266, Glu-290 to Lys-295, Lys-345 to Tyr-351, Asp-417 to Lys-422, Ser-439 to Ala-447.						
818	HFCAL40	866441	828	2 - 2269	3425				AR309: 4, AR271: 4, AR265: 4, AR312: 4, AR052: 4, AR292: 4, AR194: 3, AR295: 3, AR213: 3, AR310: 3, AR183: 3, AR053: 3, AR247: 3, AR184: 3, AR294: 3, AR273: 3.				5p14.3-q15	123000, 600857

				Asn-482 to Arg-488, Tyr-512 to Glu-517, Asn-544 to Gln-551, Leu-566 to Leu-573, Lys-685 to Leu-696, Tyr-723 to Tyr-728, Ala-738 to Asp-743, Asn-750 to Ser-755.	AR251: 3, AR248: 2, AR243: 2, AR202: 2, AR313: 2, AR175: 2, AR274: 2, AR253: 2, AR293: 2, AR282: 2, AR269: 2, AR206: 2, AR266: 2, AR227: 2, AR060: 2, AR089: 2, AR289: 2, AR237: 2, AR259: 2, AR039: 2, AR256: 1, AR316: 1, AR234: 1, AR300: 1, AR258: 1, AR185: 1, AR218: 1, AR219: 1, AR299: 1, AR238: 1, AR186: 1, AR096: 1, AR033: 1, AR268: 1, L0809: 21, L0747: 16, L0439: 14, H0673: 12, L0518: 12, L0517: 11, H0696: 11, H0674: 10, L0803: 10, L0779: 10, L0526: 9, L0519: 9, L0748: 8, L0754: 8, L0770: 7, L0666: 7, L0740: 7, L0752: 7, H0169: 6, L0659: 6, L0749: 6, L0750: 5, L0759: 5, L0362: 5, H0494: 4, L0521: 4, L0766: 4, L0649: 4, L0664: 4, H0547: 4, S0040: 3, S0360: 3, L0471: 3, L0769: 3, L0761: 3, L0794: 3, L0774: 3, L0783: 3, L0529: 3, L0663: 3, L0665: 3, L0438: 3, S0126: 3, S0328: 3, L0758: 3, H0170: 2, H0171: 2, S0212: 2, S0356: 2, S0354: 2, S0408: 2, H0393: 2, S0222: 2, H0574: 2, H0013: 2, H0156: 2, L0105: 2, T0110: 2, H0545: 2, H0051: 2, S0051: 2, S0003: 2, H0428: 2, L0483: 2, H0553: 2, H0166: 2.
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	H0591: 2, H0413: 2, H0623: 2, L0435: 2, H0561: 2, H0641: 2, H0529: 2, L0662: 2, L0768: 2, L0804: 2, L0776: 2, L0543: 2, L0565: 2, H0659: 2, H0658: 2, H0648: 2, S0330: 2, S0380: 2, S0044: 2, H0694: 2, H0445: 2, L0596: 2, L0608: 2, H0653: 2, H0543: 2, H0422: 2, H0624: 1, H0765: 1, H0656: 1, H0341: 1, S0001: 1, S0282: 1, H0638: 1, S0420: 1, L0005: 1, S0376: 1, S0444: 1, T0008: 1, H0637: 1, H0580: 1, S0007: 1, S0045: 1, S0046: 1, H0351: 1, H0411: 1, S0278: 1, H0431: 1, H0455: 1, H0409: 1, H0587: 1, H0643: 1, H0486: 1, T0039: 1, S0280: 1, H0575: 1, S0010: 1, H0318: 1, S0474: 1, H0052: 1, H0596: 1, H0009: 1, H0083: 1, H0355: 1, H0510: 1, S0214: 1, H0039: 1, H0622: 1, H0165: 1, H0168: 1, L0456: 1, H0708: 1, H0551: 1, H0264: 1, H0272: 1, H0268: 1, H0056: 1, L0351: 1, H0625: 1, H0130: 1, H0654: 1, S0144: 1, S0142: 1, S0344: 1, S0208: 1, S0422: 1, L0520: 1, L0763: 1, L0773: 1, L0381: 1, L0775: 1, L0651: 1, L0805: 1, L0653: 1, L0655: 1, L0661: 1, L0512: 1, L0656: 1, L0782: 1, L0528: 1, L0530: 1, L0367: 1, L0787: 1, L0788: 1, L0532: 1, H0144: 1, H0520: 1, H0519: 1, H0690: 1, H0682: 1, H0684: 1, H0670: 1, H0660: 1, H0539: 1, H0522: 1, S0004: 1, H0704: 1, S0406: 1, H0631: 1, L0777: 1, L0755: 1,
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819	HPCAQ17	695720	829	20 - 265	3426	Ser-66 to Ser-81.	S0031: 1, S0260: 1, S0394: 1, L0588: 1, L0599: 1, L0595: 1, S0026: 1, S0192: 1, S0276: 1, S0196: 1, H0423: 1 and S0462: 1.	
820	HFCBC16	559312	830	141 - 230	3427	Trp-19 to Ala-24,	H0494: 2, S0116: 1, H0431: 1, H0231: 1, H0009: 1, L0776: 1, L0755: 1 and H0136: 1.	
821	HFCBL53	845800	831	307 - 426	3428	Gly-32 to Met-39.	H0009: 1	L0439: 11, L0438: 6, L0351: 5, H0009: 4, H0178: 3, L0740: 3, S0007: 2, H0013: 2, L0638: 2, L0776: 2, H0144: 2, H0170: 1, H0265: 1, H0556: 1, S6024: 1, S0001: 1, S0300: 1, L0717: 1, S0222: 1, H0455: 1, S0010: 1, S0346: 1, L0738: 1, S0388: 1, H0252: 1, S0036: 1, H0135: 1, H0163: 1, H0494: 1, L0790: 1, H0134: 1, S0028: 1, L0779: 1, L0777: 1, L0759: 1, L0366: 1, S0026: 1, H0677: 1 and S0384: 1.
822	HFCBL53	852457	832	307 - 426	3429	Trp-19 to Ala-24, Gly-32 to Met-39.	L0439: 11, L0438: 6, L0351: 5, H0009: 4, H0178: 3, L0740: 3, S0007: 2, H0013: 2, L0638: 2, L0776: 2, H0144: 2, H0170: 1, H0265: 1, H0556: 1, S6024: 1, S0001: 1, S0300: 1, L0717: 1, S0222: 1, H0455: 1, S0010: 1, S0346: 1, L0738: 1, S0388: 1, H0252: 1, S0036: 1, H0135: 1, H0163: 1, H0494: 1, L0790: 1, H0134: 1, S0028: 1, L0779: 1, L0777: 1, L0759: 1, L0366: 1, S0026: 1, H0677: 1 and S0384: 1.	L7p13.2
823	HFCBL53	858733	833	307 - 426	3430	Trp-19 to Ala-24, Gly-32 to Met-39.	L0439: 11, L0438: 6, L0351: 5, H0009: 4, H0178: 3, L0740: 3, S0007: 2, H0013: 2, L0638: 2, L0776: 2, H0144: 2, H0170: 1, H0265: 1, H0556: 1, S6024: 1, S0001: 1, S0300: 1, L0717: 1, S0222: 1, H0455: 1, S0010: 1, S0346: 1, L0738: 1, S0388: 1, H0252: 1, S0036: 1, H0135: 1, H0163: 1, H0494: 1, L0790: 1, H0134: 1, S0028: 1, L0779: 1, L0777: 1, L0759: 1, L0366: 1, S0026: 1, H0677: 1 and S0384: 1.	L7p13.2

824	HFCBT29	654842	834	230 - 328	3431			3, S0007: 2, H0013: 2, L0638: 2, L0776: 2, H0144: 2, L06170: 1, H0265: 1, H0556: 1, S0624: 1, S0001: 1, S0300: 1, L0717: 1, S0222: 1, H0455: 1, S0010: 1, S0346: 1, L0738: 1, S0388: 1, H0252: 1, S0036: 1, H0135: 1, H0163: 1, H0494: 1, L0790: 1, H0134: 1, S0028: 1, L0779: 1, L0777: 1, L0759: 1, L0366: 1, S0026: 1, H0677: 1 and S0384: 1.	
825	HFCZ31	732437	835	169 - 201	3432			H0009: 2, H0583: 1, S0045: 1 and S0250: 1. S0007: 6, S0222: 3, H0551: 3, S0134: 2, S0356: 2, H0393: 2, H0333: 2, S0010: 2, S0388: 2, H0646: 2, L0777: 2, L0780: 2, L0752: 2, L0759: 2, L0592: 2, L0595: 2, H0662: 1, H0619: 1, L0717: 1, H0392: 1, H0486: 1, T0039: 1, H0052: 1, L0738: 1, H0009: 1, H0050: 1, L0471: 1, S0362: 1, T0010: 1, H0090: 1, S0038: 1, S0386: 1, H0652: 1, H0538: 1, S0002: 1, L0631: 1, L0372: 1, L0773: 1, L0803: 1, L0375: 1, L0657: 1, L0659: 1, L0666: 1, S0044: 1, L0741: 1, L0740: 1, L0750: 1, S0434: 1, H0665: 1, S0192: 1, H0422: 1 and H0506: 1.	
826	HFCDN13	722221	836	21 - 299	3433	Ser-18 to Ser-26, Pro-33 to Ser-48, Arg-65 to Cys-71, Pro-74 to Ala-81, Pro-84 to Ser-90.		L0777: 10, L0758: 9, S0436: 8, L0438: 7, L0748: 7, L0666: 6, H0520: 6, L0439: 6, S0358: 5, L0659: 5, L0809: 5, H0547: 5, L0740: 5, L0747: 5, L0750: 5, H0046: 4, H0135: 4, L0771: 4, L0665: 4, H0660: 4, H0539: 4, L0751: 4, L0749: 4, L0759: 4.	Ipter-p12

827	HFCDT67	598900	837	138 - 449	3434	Ala-94 to Pro-103.	1, L0363: 1, L0768: 1, L0794: 1, L0804: 1, L0806: 1, L0805: 1, L0653: 1, L0493: 1, L0517: 1, L0782: 1, L0783: 1, L0647: 1, L0789: 1, L0790: 1, H0593: 1, H0689: 1, H0690: 1, S0330: 1, S0044: 1, H0694: 1, H0555: 1, H0626: 1, L0756: 1, L0753: 1, L0755: 1, H0445: 1, S0434: 1, L0592: 1, L0608: 1, L0593: 1, S0196: 1, H0543: 1, H0422: 1, S0424: 1, S0436: 1, H0506: 1 and H0008: 1.	11	
828	HFCDY36	834512	838	628 - 720	3435		L0438: 9, L0748: 7, L0749: 5, L0662: 4, L0439: 4, L0747: 4, L0659: 3, L0766: 2, L0775: 2, L0666: 2, L0779: 2, H0624: 1, H0171: 1, H0716: 1, H0583: 1, H0656: 1, S0001: 1, H0662: 1, S0358: 1, H0549: 1, H0574: 1, H0052: 1, H0009: 1, H0014: 1, S0051: 1, T0010: 1, H0416: 1, S0316: 1, H0039: 1, H0056: 1, H0625: 1, S0002: 1, S0426: 1, L0764: 1, L0773: 1, L0789: 1, L0663: 1, L0664: 1, H0144: 1, S0126: 1, L0750: 1, L0755: 1, H0445: 1, L0595: 1 and H0422: 1.		
829	HFCEI45	847384	839	164 - 445	3436	Met-76 to Gly-82.	L0439: 3, H0009: 2, L0638: 1 and L0438: 1. H0457: 8, S0116: 1, S0442: 1, H0549: 1, H0415: 1, H0009: 1, H0179: 1, H0687: 1, H0040: 1, H0551: 1, H0264: 1, H0633: 1, S0052: 1, H0519: 1, S0126: 1 and H0423: 1.		
830	HFCEI43	596813	840	238 - 378	3437	Pro-17 to Arg-25.	L0438: 6, L0805: 8, L0766: 4, L0731: 4, L0794: 3, L0665: 3, S0360: 2, H0052: 2, H0009: 1 and H0423: 1.	22q12.3	138931, 188826, 190040, 190040, 190040, 600850,

831	HFEAG55	838142	841	43 - 528	3438	Ala-29 to Thr-34, Pro-55 to Gly-67.	AR184: 7, AR266: 4, AR253: 4, AR290: 3, AR270: 3, AR194: 3, AR282: 2, AR039: 1, AR096: 1, AR277: 1, AR313: 1, AR284: 1, AR286: 1, AR294: 1, L0758: 6, H0620: 4, L0769: 4, L0777: 4, H0556: 3, S0420: 2, L0770: 2, L0803: 2, L0776: 2, L0659: 2, L0666: 2, S0374: 2, L0748: 2, L0591: 2, H0265: 1, H0685: 1, S0134: 1, H0484: 1, S0354: 1, S0360: 1, S0408: 1, H0580: 1, H0415: 1, H0587: 1, H0599: 1, H0053: 1, H0052: 1, H0081: 1, H0288: 1, H0428: 1, H0059: 1, H0633: 1, L0766: 1, L0650: 1, L0805: 1, L0655: 1, L0606: 1, L0791: 1, L0664: 1, H0144: 1, L0438: 1, H0547: 1, H0690: 1, H0682: 1, S0378: 1, H0521: 1, L0439: 1, L0740: 1, L0751: 1, L0755: 1, L0595: 1, H0665: 1, S0424: 1 and H0677: 1.	2, L0776: 2, L0748: 2, L0747: 2, S0001: 1, H0484: 1, L0617: 1, L0717: 1, H0351: 1, S0222: 1, H0600: 1, S0005: 1, H0599: 1, H0122: 1, S0010: 1, H0327: 1, H0046: 1, H0135: 1, H0488: 1, L0598: 1, L0762: 1, L0769: 1, L0803: 1, L0655: 1, L0659: 1, L0789: 1, L0744: 1, L0439: 1, L0745: 1, L0750: 1, L0777: 1 and S0194: 1.	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777	601669
832	HFEAU63	790190	842	9 - 44	3439		AR060: 3, AR316: 2, AR089: 2 H0081: 1				

833	HFEB A88	684297	843	385 - 558	3440	Gln-25 to Arg-31.	AR089: 18, AR316: 15, AR060: 12 L0748: 7, L0751: 6, L0731: 6, L0747: 5, L0803: 4, L0774: 3, L0663: 3, H0539: 3, H0478: 3, L0749: 3, H0586: 2, H0587: 2, H0599: 2, L0764: 2, L0775: 2, L0384: 2, S0374: 2, H0670: 2, L0777: 2, L0752: 2, L0757: 2, H0624: 1, H0484: 1, H0411: 1, S0222: 1, H0441: 1, H0438: 1, H0574: 1, L0622: 1, L0623: 1, L0021: 1, S0049: 1, H0123: 1, H0081: 1, H0024: 1, H0057: 1, H0014: 1, H0266: 1, H0058: 1, H0633: 1, L0763: 1, L0770: 1, L0373: 1, L0646: 1, L0662: 1, L0386: 1, L0806: 1, L0809: 1, L0787: 1, L0666: 1, H0693: 1, S0126: 1, H0638: 1, S0146: 1, S0390: 1, L0750: 1, L0756: 1, L0755: 1, L0758: 1, L0759: 1, L0581: 1, H0506: 1 and L0600: 1		
834	HFEBK75	855938	844	228 - 434	3441	Leu-23 to Ala-33.	AR089: 526, AR316: 370, AR060: 227 H0081: 1		
835	HFEB O15	831772	845	542 - 553	3442		AR060: 10, AR316: 9, AR089: 9 H0305: 6, L0754: 4, L0794: 3, L0617: 2, S0360: 2, H0135: 2, H0087: 2, L0764: 2, L0649: 2, S0328: 2, L0757: 2, L0411: 1, H0265: 1, S0358: 1, S0045: 1, S0278: 1, H0550: 1, T0104: 1, H0427: 1, H0581: 1, H0544: 1, H0546: 1, H0081: 1, H0620: 1, H0024: 1, H0051: 1, H0617: 1, H0040: 1, S0002: 1, L0769: 1, L0372: 1, L0767: 1, L0774: 1	22q13	102480, 138981, 188826, 190040, 190040, 190040, 600850, 601669, 602229

836	HFEBO17	852218	846	136 - 219	3443		1, L0809: 1, L0789: 1, L0743: 1, L0747: 1 and L0750: 1. AR089: 12, AR316: 11, AR060: 10 H0081: 1			
837	HFFAE46	654843	847	93 - 197	3444		H0346: 1, H0172: 1 and H0665: 1.	19p13.3		
838	HFFAH01	843438	848	72 - 224	3445	Pro-18 to Gln-25, Ser-45 to Pro-50.	AR060: 7, AR316: 6, AR089: 4 H0172: 2, S0354: 1, S0222: 1, H0357: 1 and H0318: 1.	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477		
839	HFFAL70	827570	849	178 - 258	3446		L0766: 25, L0769: 8, L0794: 6, H0087: 5, L0749: 5, H0617: 4, L0731: 4, L0756: 3, H0265: 2, H0620: 2, L0764: 2, L0803: 2, L0806: 2, L0789: 2, S0126: 2, H0670: 2, L0742: 2, L0748: 2, L0754: 2, L0747: 2, L0750: 2, L0777: 2, H0556: 1, H0294: 1, S0134: 1, S0116: 1, H0484: 1, H0255: 1, S0418: 1, S0360: 1, H0370: 1, H0455: 1, H0350: 1, H0492: 1, L0586: 1, L0021: 1, H0310: 1, H0309: 1, H0204: 1, H0009: 1, L0157: 1, H0172: 1, H0012: 1, T0010: 1, H0083: 1, S0022: 1, H0181: 1, H0606: 1, H0040: 1, S0038: 1, T0042: 1, S0370: 1, H0538: 1, L0796: 1, L0768: 1, L0633: 1, L0809: 1, L0788: 1, L0666: 1, H0658: 1, H0660: 1, H0648: 1, H0521: 1, H0696: 1, L0439: 1, L0779: 1, L0752: 1, L0592: 1 and H0352: 1.			
840	HFFAV61	664486	850	56 - 208	3447		H0575: 1 and H0172: 1.	16q22-q23	103850, 114835,	

841	HFGAB50	831761	851	1833 - 1916	3448		AR089: 16, AR316: 12, AR060: 8 S0444: 24, S0442: 15, S0408: 13, S0374: 11, S0358: 8, H0046: 7, L0754: 6, L0666: 5, L0749: 5, L0803: 4, L0805: 4, L0771: 4, S0354: 3, L0794: 3, L0663: 3, L0756: 3, L0752: 3, H0309: 2, L0763: 2, L0770: 2, L0638: 2, L0637: 2, L0521: 2, L0662: 2, L0766: 2, L0791: 2, H0648: 2, S0026: 2, L0600: 2, H0624: 1, H0686: 1, S0116: 1, S0212: 1, H0663: 1, H0402: 1, H0675: 1, S0045: 1, H0587: 1, S0414: 1, H0486: 1, H0427: 1, H0053: 1, H0421: 1, H0178: 1, H0563: 1, L0471: 1, H0014: 1, H0051: 1, H0687: 1, S0250: 1, H0111: 1, H0032: 1, H0090: 1, H0264: 1, H0488: 1, T0041: 1, H0509: 1, S0142: 1, L0520: 1, L0650: 1, L0790: 1, L0664: 1, L0665: 1, H0144: 1, H0711: 1, H0684: 1, S0330: 1, S0404: 1, L0747: 1, L0780: 1, L0755: 1, L0757: 1, L0758: 1 and S0434: 1	121360, 217800, 218030
842	HFGAE28	815658	852	347 - 385	3449		AR089: 26, AR316: 21, AR060: 16 L0794: 7, L0740: 7, L0776: 4, H0046: 3, L0805: 3, L0749: 3, L0731: 3, H0624: 2, S0282: 2, L0157: 2, H0615: 2, L0663: 2, H0519: 2, L0742: 2, L0748: 2, L0754: 2, L0747: 2, L0777: 2, H0686: 1, H0294: 1, H0486: 1, H0349: 1, H0009: 1, H0178:	11

843	HFGANG63	708053	853	507 - 638	3450	Thr-31 to Gln-41.	1, H0050: 1, L0471: 1, H0328: 1, H0030: 1, H0412: 1, S0448: 1, L0764: 1, L0662: 1, L0807: 1, L0789: 1, L0792: 1, L0666: 1, S0126: 1, H0670: 1, L0743: 1, L0779: 1, L0780: 1 and L0759: 1.		
844	HFHDN80	899438	854	259 - 561	3451	Met-1 to Gln-7, Pro-23 to Thr-40, Leu-85 to Lys-101.	AR060: 5, AR316: 5, AR089: 4 L0592: 2, H0013: 1, H0178: 1, H0099: 1, H0032: 1, H0529: 1, L0772: 1, H0521: 1 and L0780: 1.		
845	HFIAB78	581054	855	183 - 248	3452		H0619: 3, H0264: 2, S0116: 1, S0354: 1, H0645: 1, H0639: 1, H0708: 1, S0002: 1, L0662: 1, H0519: 1, L0743: 1, L0748: 1 and L0731: 1. L0766: 12, H0581: 5, L0439: 5, L0754: 5, L0750: 5, H0050: 4, S0003: 4, H0622: 4, H0090: 4, H0521: 4, L0748: 4, L0740: 4, L0779: 4, L0731: 4, H0619: 3, H0574: 3, H0635: 3, S0346: 3, H0046: 3, H0615: 3, L0483: 3, L0666: 3, S0126: 3, S0380: 3, L0745: 3, L0752: 3, S0026: 3, H0171: 2, S0116: 2, S0212: 2, H0661: 2, H0441: 2, H0575: 2, H0553: 2, H0591: 2, H00388: 2, L0768: 2, L0775: 2, L0776: 2, L0659: 2, L0565: 2, L0438: 2, L0753: 2, L0758: 2, L0605: 2, L0592: 2, H0506: 2, H0170: 1, H0556: 1, H0140: 1, L0002: 1, H0656: 1, H0662: 1, S0418: 1, S0358: 1, S0376: 1, S0360: 1, S0408: 1, H0580: 1, S0045: 1, S0046: 1, H0645: 1, H0569: 4		

846	HFIAD23	581055	856	30 - 113	3453	<p>1, H0431: 1, H0370: 1, H0492: 1, H0486: 1, H0013: 1, H0244: 1, H0069: 1, H0427: 1, H0599: 1, H0042: 1, H0590: 1, H0196: 1, H0052: 1, H0194: 1, H0309: 1, L0471: 1, H0024: 1, H0057: 1, H0015: 1, H0373: 1, S0388: 1, S0051: 1, T0010: 1, H0109: 1, S6028: 1, H0267: 1, H0179: 1, S0250: 1, S0022: 1, H0252: 1, T0006: 1, H0644: 1, L0055: 1, H0674: 1, L0455: 1, H0598: 1, H0634: 1, H0616: 1, H0488: 1, H0623: 1, H0646: 1, L0598: 1, L0762: 1, L0770: 1, L0646: 1, L0764: 1, L0773: 1, L0803: 1, L0804: 1, L0774: 1, L0655: 1, L0783: 1, L0529: 1, L0663: 1, L0664: 1, S0052: 1, S0428: 1, S0374: 1, H0547: 1, H0659: 1, H0660: 1, H0648: 1, S0152: 1, H0522: 1, H0555: 1, S0028: 1, S0206: 1, L0749: 1, L0756: 1, L0755: 1, L0757: 1, H0595: 1, L0366: 1, S0192: 1, H0542: 1, H0543: 1, H0422: 1, S0424: 1 and L0462: 1.</p> <p>S0192: 40, L0766: 8, H0581: 5, H0436: 5, H0090: 4, H0543: 4, H0575: 3, S0422: 3, H0580: 2, H0486: 2, H0318: 2, L0748: 2, L0758: 2, H0445: 2, H0423: 2, H0422: 2, H0556: 1, S0420: 1, S0444: 1, S0360: 1, S0140: 1, H0619: 1, H0485: 1, L0586: 1, H0075: 1, H0635: 1, H0596: 1, H0050: 1, S0250: 1, H0428: 1, H0032: 1, H0598: 1, H0272: 1, H0412: 1, T0041: 1, H0561: 1, H0641: 1, L0638: 1, L0662:</p>
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847	HFIK06	608176	857	302 - 415	3454		1, L0794: 1, L0806: 1, L0659: 1, L0518: 1, L0789: 1, L0663: 1, H0701: 1, H0659: 1, H0660: 1, H0666: 1, H0648: 1, H0672: 1, L0740: 1, L0749: 1, L0756: 1 and S0194: 1.	
848	HFICH70	608200	858	120 - 263	3455		S0192: 1, L0659: 2, L0809: 2, H0517: 1, L0369: 1, L0709: 1, L0803: 1 and S0192: 1.	
849	HFIHQ57	564793	859	322 - 465	3456		H0615: 1, L0766: 1 and S0194: 1.	
850	HFIK29	843587	860	1611 - 1691	3457		L0809: 5, L0777: 4, L0731: 4, L0485: 4, S0408: 3, L0794: 3, L0803: 3, L0438: 3, L0779: 3, L0755: 3, L0758: 3, H0645: 2, H0581: 2, L0800: 2, L0766: 2, L0804: 2, L0659: 2, L0790: 2, L0663: 2, S0328: 2, H0696: 2, L0740: 2, T0002: 1, S0040: 1, H0713: 1, S0116: 1, H0661: 1, S0418: 1, S0420: 1, S0476: 1, H0619: 1, H0261: 1, S0222: 1, H0600: 1, H0427: 1, H0706: 1, L0105: 1, H0318: 1, H0545: 1, S0051: 1, H0188: 1, H0687: 1, H0628: 1, H0591: 1, H0641: 1, H0646: 1, S0422: 1, H0579: 1, L4557: 1, L0763: 1, L0764: 1, L0662: 1, L0649: 1, L0775: 1, L0805: 1, L0526: 1, L0783: 1, L0382: 1, L0789: 1, L0666: 1, S0148: 1, S0126: 1, H0648: 1, S0330: 1, S0152: 1, H0521: 1, S0027: 1, L0744: 1, L0745: 1, L0749: 1, L0780: 1, L0759: 1, L0684: 1, S0194: 1, H0543: 1 and L0600: 1.	4

851	HFIUK29	852308	861	1611 - 1691	3458			4	L0809: 5, L0777: 4, L0731: 4, L0485: 4, S0408: 3, L0794: 3, L0803: 3, L0438: 3, L0779: 3, L0755: 3, L0758: 3, H0645: 2, H0581: 2, L0800: 2, L0766: 2, L0804: 2, L0659: 2, L0790: 2, L0663: 2, S0328: 2, H0696: 2, L0740: 2, T0002: 1, S0040: 1, H0713: 1, S0116: 1, H0661: 1, S0418: 1, S0420: 1, S0476: 1, H0619: 1, H0261: 1, S0222: 1, H0600: 1, H0427: 1, H0706: 1, L0105: 1, H0318: 1, H0545: 1, S0051: 1, H0188: 1, H0687: 1, H0628: 1, H0591: 1, H0641: 1, H0646: 1, S0422: 1, H0529: 1, L4557: 1, L0763: 1, L0764: 1, L0662: 1, L0649: 1, L0775: 1, L0805: 1, L0526: 1, L0783: 1, L0382: 1, L0789: 1, L0666: 1, S0148: 1, S0126: 1, H0648: 1, S0330: 1, S0152: 1, H0521: 1, S0027: 1, L0744: 1, L0745: 1, L0749: 1, L0780: 1, L0759: 1, L0684: 1, S0194: 1, H0543: 1 and L0600: 1.
852	HFIUK29	875681	862	1611 - 1691	3459			4	L0809: 5, L0777: 4, L0731: 4, L0485: 4, S0408: 3, L0794: 3, L0803: 3, L0438: 3, L0779: 3, L0755: 3, L0758: 3, H0645: 2, H0581: 2, L0800: 2, L0766: 2, L0804: 2, L0659: 2, L0790: 2, L0663: 2, S0328: 2, H0696: 2, L0740: 2, T0002: 1, S0040: 1, H0713: 1, S0116: 1, H0661: 1, S0418: 1, S0420: 1, S0476: 1, H0619: 1, H0261: 1, S0222: 1, H0600: 1, H0427: 1, H0706: 1, L0105: 1, H0318: 1, H0545: 1, S0051: 1, H0188: 1, H0687: 1.

853	HFIUQ29	885007	863	1611 - 1691	3460							1, H0628: 1, H0591: 1, H0641: 1, H0646: 1, S0422: 1, H0529: 1, L4557: 1, L0763: 1, L0764: 1, L0662: 1, L0649: 1, L0775: 1, L0805: 1, L0526: 1, L0783: 1, L0382: 1, L0789: 1, L0666: 1, S0148: 1, S0126: 1, H0648: 1, S0330: 1, S0152: 1, H0521: 1, S0027: 1, L0744: 1, L0745: 1, L0749: 1, L0780: 1, L0759: 1, L0684: 1, S0194: 1, H0543: 1 and L0600: 1.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</
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856	HFTU61	855939	866	2 - 274	3463	Val-38 to Trp-51.	1p13	L0758: 2, S0442: 1, S0222: 1, S0474: 1, H0038: 1, L0638: 1, L0533: 1, L0803: 1, L0776: 1, L0544: 1 and S0194: 1. AR216: 85, AR214: 66, AR205: 66, AR215: 61, AR171: 59, AR169: 58, AR245: 57, AR224: 57, AR223: 56, AR168: 56, AR221: 53, AR225: 53, AR217: 52, AR222: 51, AR212: 50, AR210: 49, AR311: 49, AR199: 49, AR170: 47, AR274: 45, AR313: 44, AR172: 44, AR213: 42, AR252: 40, AR299: 39, AR247: 39, AR312: 39, AR264: 38, AR161: 37, AR164: 37, AR189: 37, AR089: 37, AR246: 37, AR188: 36, AR218: 36, AR166: 36, AR162: 35, AR039: 35, AR263: 34, AR163: 34, AR195: 34, AR096: 34, AR308: 34, AR309: 33.	102770, 188540, 600234, 601414, 601691, 601691, 601691, 601718, 602094	

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857	HFIJ81	787129	867	1274 - 1396	3464		1, L0804: 1, L0774: 1, L0775: 1, L0806: 1, L0659: 1, L0783: 1, L0529: 1, L0663: 1, L0664: 1, S0428: 1, H0684: 1, H0670: 1, H0648: 1, S0380: 1, S0027: 1, L0749: 1, L0756: 1, L0755: 1, L0758: 1, S0434: 1, L0587: 1, L0605: 1, S0194: 1, H0543: 1 and H0423: 1.	1	
858	HFIJF44	842713	868	82 - 189	3465		H0616: 14, L0794: 8, L0439: 8, H0457: 5, L0599: 5, L0748: 4, L0777: 4, L0758: 4, S0358: 3, H0581: 3, H0031: 3, L0766: 3, L0803: 3, L0639: 3, L0809: 3, L0779: 3, H0052: 2, H0375: 2, H0646: 2, L0763: 2, L0666: 2, L0664: 2, L0438: 2, H0694: 2, L0754: 2, L0745: 2, L0747: 2, L0749: 2, H0542: 2, H0422: 2, H0556: 1, S0114: 1, H0393: 1, H0411: 1, H0486: 1, H0635: 1, H0121: 1, H0545: 1, H0123: 1, H0050: 1, H0024: 1, H0373: 1, H0051: 1, H0428: 1, H0264: 1, H0560: 1, S0426: 1, L0761: 1, L0771: 1, L0773: 1, L0768: 1, L0804: 1, L0806: 1, L0805: 1, L0776: 1, L0517: 1, L0529: 1, L0791: 1, L0665: 1, H0701: 1, H0547: 1, H0593: 1, H0682: 1, H0684: 1, H0659: 1, H0648: 1, S0350: 1, H0539: 1, S0380: 1, H0518: 1, H0436: 1, S0012: 1, L0744: 1, L0756: 1, L0780: 1, L0752: 1, L0759: 1, L0480: 1, L0485: 1, S0194: 1, S0424: 1 and H0506: 1.		
859	HFTT A02	843763	869	306 - 404	3466		H0392: 1, H0617: 1, S0052: 1, L0591: 1 and S0194: 1, L0766: 2, L0777: 2, H0421: 1.		

860	HFTF80	608210	870	87 - 191	3467	Var-25 to Gly-34.	1, H0090: 1, L0639: 1, L0757: 1 and S0196: 1. H0623: 7, H0556: 3, H0663: 3, S0408: 3, H0551: 3, L0774: 3, L0740: 3, L0596: 3, S0212: 2, S0410: 2, S0474: 2, H0581: 2, S0250: 2, H0494: 2, H0529: 2, L0663: 2, L0748: 2, L0439: 2, L0759: 2, H0656: 1, H0459: 1, H0638: 1, S0358: 1, S0360: 1, H0580: 1, H0722: 1, H0619: 1, H0587: 1, H0574: 1, H0486: 1, T0039: 1, H0251: 1, H0046: 1, H0569: 1, H0266: 1, H0615: 1, H0090: 1, H0591: 1, T0042: 1, S0440: 1, S0210: 1, L0372: 1, L0642: 1, L0662: 1, L0766: 1, L0803: 1, L0639: 1, L0519: 1, L0666: 1, H0519: 1, S0126: 1, S0330: 1, S0152: 1, H0521: 1, H0436: 1, L0754: 1, L0779: 1, L0777: 1, L0780: 1, L0755: 1, L0731: 1, L0758: 1, S0434: 1, H0136: 1, S0196: 1 and H0543: 1.		
861	HFTUK66	600358	871	51 - 275	3468	Gly-42 to Asp-49.	L0794: 4, H0521: 4, L0803: 3, H0436: 3, L0744: 3, H0486: 2, H0581: 2, L0776: 2, L0751: 2, L0754: 2, L0756: 2, H0716: 2, L0402: 1, H0637: 1, S0222: 1, H0635: 1, H0596: 1, H0457: 1, H0050: 1, H0615: 1, H0622: 1, H0032: 1, H0090: 1, H0038: 1, H0264: 1, H0647: 1, H0652: 1, S0422: 1, L0520: 1, L0766: 1, L0806: 1, L0659: 1, L0664: 1, L0665: 1, S0374: 1, T0068: 1, H0547: 1, L0779: 1, L0777: 1, L0731: 1, L0758: 1, L0759: 1, S0196: 1, H0542: 1 and		

862	HFIUT21	794323	872	404 - 478	3469		H0506: 1. AR089: 6, AR316: 4, AR060: 1 L0439: 2, L0754: 2, L0756: 2, L0779: 2, S0360: 1, H0427: 1, S0010: 1, S0422: 1, L0772: 1, L0643: 1, L0662: 1, L0794: 1, L0657: 1, L0664: 1, L0752: 1, L0755: 1, L0592: 1, L0595: 1 and S0196: 1. S0192: 130, L0659: 16, L0666: 11, L0771: 9, S0360: 7, S0194: 5, H0392: 4, L0662: 4, S0196: 4, S0212: 3, L0665: 3, L0439: 3, S0444: 2, H0580: 2, H0497: 2, H0251: 2, H0375: 2, S0003: 2, H0252: 2, L0598: 2, L0638: 2, L0637: 2, L0649: 2, L0774: 2, L0806: 2, L0783: 2, L0664: 2, H0520: 2, H0690: 2, H0684: 2, H0436: 2, L0751: 2, L0777: 2, S0242: 2, H0422: 2, H0170: 1, S0420: 1, S0442: 1, S0358: 1, S0468: 1, H0333: 1, S0414: 1, H0014: 1, H0373: 1, H0067: 1, S0336: 1, H0687: 1, S0250: 1, H0428: 1, H0048: 1, H0169: 1, H0591: 1, H06344: 1, H0412: 1, H0413: 1, L0351: 1, S0438: 1, S0422: 1, L0803: 1, L0775: 1, L0375: 1, L0655: 1, L0809: 1, L0790: 1, L0438: 1, H0435: 1, H0521: 1, S0406: 1, L0742: 1, L0747: 1, L0756: 1, L0731: 1, L0758: 1, H0445: 1, S0436: 1, L0588: 1, L0599: 1, S0412: 1 and H0506: 1. AR089: 2, AR316: 1 L0439: 7, L0777: 5, L0794: 3, L0483: 2, H0623: 2, L0803:	3p13-q23	156845, 156845, 156845, 164500, 182280, 227646, 261510, 600151, 600163, 601154
863	HFIVB04	847075	873	227 - 343	3470	Lys-23 to Gly-28.			
864	HFIXC39	683053	874	774 - 953	3471			2q31-q37	100690, 113300, 120070, 120131, 120131, 120180,

865	HFXC69	704080	875	98 - 295	3472	Asp-25 to Tyr-46, Thr-53 to Phe-65.	2, L0438: 2, S0392: 2, L0756; 2, S0360: 1, H0052: 1, L0351; 1, L0800: 1, L0774: 1, L0809; 1, L0749: 1, L0752: 1, L0755; 1 and S0242: 1. AR089: 25, AR316: 21, AR060: 18 S0276: 11, S0194: 9, H0594: 6, L0806: 6, S0192: 6, S0028: 4, L0744: 4, L0748: 4, L0759: 4, L0743: 3, L0745: 3, L0747: 3, L0755: 3, S0599: 3, S0242: 3, H0586: 2, H0042: 2, L0163: 2, S0370: 2, L0770: 2, L0771: 2, L0775: 2, H0689: 2, S0027: 2, L0749: 2, L0752: 2, H0445: 2, L0601: 2, H0170: 1, H0716: 1, H0483: 1, H0662: 1, L0717: 1, H0411: 1, H0441: 1, H0587: 1, H0486: 1, L0021: 1, H0575: 1, H0618: 1, H0309: 1, H0121: 1, H0327: 1, S0334: 1, S0250: 1, H0087: 1, H0100: 1, S0440: 1, H0538: 1, L0769: 1, L5565: 1, L0800: 1, L0766: 1, L0774: 1, L0651: 1, L0376: 1, L0776: 1, L0783: 1, L0368: 1, L0787: 1, L0666: 1, H0593: 1, S0126: 1, H0660: 1, S0390: 1, S3014: 1, S0206: 1, L0754: 1, L0750: 1, L0756: 1, L0731: 1 and L0600: 1. L0754: 6, L0438: 5, L0746: 4, L0662: 3, L0439: 3, L0756: 3, L0759: 3, S0360: 2, H0616: 2, L0794: 2, L0790: 2, L0666: 2, L0744: 2, L0745: 2, L0779: 2, L0731: 2, L0601: 2, H0677:	120180, 120180, 120180, 120190, 120250, 138030, 142989, 156232, 178600, 259900, 266100, 600258, 600321, 600430
866	HFXE39	844408	876	69 - 164	3473		102772, 106210, 106210, 106210, 106210, 107271, 114550, 115500, 136530, 151390, 179615, 179615.	

867	HFIZP15	688044	877	68 - 175	3474	Glu-26 to Glu-35.	2, H0657: 1, S0212: 1, S0356: 1, S0442: 1, S0358: 1, S0300: 1, S0222: 1, S0010: 1, L0163: 1, H0375: 1, S0003: 1, T0067: 1, H0380: 1, L0351: 1, S0422: 1, L0770: 1, L0772: 1, L0800: 1, L0771: 1, L0363: 1, L0655: 1, L0657: 1, L0656: 1, L0659: 1, L0367: 1, H0670: 1, S0330: 1, S0013: 1, L0747: 1, L0757: 1, S0436: 1 and S0242: 1. L0748: 6, L0747: 2, L0750: 2, H0486: 1, H0004: 1, S0022: 1, H0547: 1, S0027: 1, L0777: 1 and S0242: 1.		179616, 180385, 194070, 194070, 194070, 245349
868	HFIZE10	607733	878	243 - 353	3475	Glu-23 to Phe-31.	L0439: 3, L0779: 3, L0665: 2, L0759: 2, S0030: 1, H0661: 1, H0497: 1, L0021: 1, H0274: 1, L0105: 1, S0388: 1, S0051: 1, L0142: 1, L0143: 1, L0638: 1, L0521: 1, L0662: 1, L0767: 1, L0794: 1, L0803: 1, L0661: 1, H0144: 1, S0374: 1, L0438: 1, H0520: 1, L0752: 1, L0731: 1, L0757: 1, S0031: 1, S0026: 1, S0242: 1 and S0412: 1. L0439: 3, L0779: 3, L0665: 2, L0759: 2, S0030: 1, H0661: 1, H0497: 1, L0021: 1, H0274: 1, L0105: 1, S0388: 1, S0051: 1, L0142: 1, L0143: 1, L0638: 1, L0521: 1, L0662: 1, L0767: 1, L0794: 1, L0803: 1, L0661: 1, H0144: 1, S0374: 1, L0438: 1, H0520: 1, L0752: 1, L0731: 1, L0757: 1, S0031: 1, S0026: 1, S0242: 1 and S0412: 1.	1q24	107300, 131210, 136132, 145001, 173610, 601518, 601652
869	HFIZF51	532598	879	186 - 383	3476	Lys-24 to Gly-34, Lys-38 to Lys-66.	AR089: 18, AR316: 14, AR060: 10, S0242: 1		
870	HFIZK42	857254	880	435 - 509	3477		AR089: 20, AR316: 13, AR060: 7, S0242: 1 and H0543: 1, S0242: 1		
871	HFIZM89	608211	881	143 - 256	3478		H0009: 1, H0011: 1 and H0595: 1.		
872	HFKBA62	844485	882	120 - 227	3479	Asn-26 to Thr-33.			
873	HFKBC47	847076	883	6 - 98	3480		AR168: 14, AR214: 13, AR222: 13, AR217: 10, AR224: 8, AR216: 8, AR171: 5, AR225: 4.	7	

874	HFKDX3	731867	884	964 - 1299	3481	Leu-7 to Trp-13, Thr-34 to Gly-54, Gly-61 to Thr-67.	1, H0620: 1, H0373: 1, L0163: 1, S0051: 1, T0010: 1, H0687: 1, H0028: 1, H0039: 1, H0031: 1, S0036: 1, H0264: 1, H0413: 1, H0100: 1, L0564: 1, L0598: 1, L0763: 1, L0761: 1, L0648: 1, L0662: 1, L0794: 1, L0650: 1, L0375: 1, L0523: 1, L0805: 1, L0807: 1, L0647: 1, L0789: 1, L0666: 1, S0374: 1, L0438: 1, H0689: 1, H0659: 1, H0670: 1, H0518: 1, H0627: 1, S0037: 1, S0027: 1, L0743: 1, L0740: 1, L0749: 1, H0595: 1, S0434: 1, L0605: 1, L0485: 1, L0593: 1, S0192: 1 and S0196: 1.				
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875	HFKEB14	709663	885	218 - 316	3482	Ser-15 to His-26.	AR089: 8, AK316: 7, AR060: 6 L0731: 10, L0439: 5, L0650: 4, L0776: 4, H0012: 3, H0038: 3, L0805: 3, H0547: 3, L0750: 3, L0758: 3, L0770: 2, L0809: 2, L0666: 2, H0144: 2, H0539: 2, L0756: 2, L0777: 2, T0049:	15q11.2			103581, 146150, 203200, 203200, 227220, 601623, 601800, 601889, 602117

876	HFKEG63	731913	886	211 - 552	3483	Leu-65 to Trp-76, Pro-80 to Leu-92, Gly-96 to Gly-102, Arg-105 to Gly-110,	1, S0358: 1, H0369: 1, H0574: 1, H0486: 1, H0427: 1, H0563: 1, H0566: 1, H0050: 1, L0471: 1, H0687: 1, H0615: 1, H0428: 1, H0553: 1, H0628: 1, H0032: 1, H0169: 1, H0135: 1, L0351: 1, H0561: 1, L0764: 1, L0773: 1, L0768: 1, L0522: 1, L0803: 1, L0775: 1, L0806: 1, L0664: 1, H0593: 1, H0684: 1, H0648: 1, H0631: 1, S0037: 1, L0779: 1, L0755: 1, L0757: 1, L0759: 1 and S0026: 1.			
877	HFKE535	753268	887	414 - 932	3484	Cys-162 to Gly-171.	AR089: 6, AR316: 5, AR060: 4 H0012: 1 L0809: 4, L0666: 4, L0756: 4, H0254: 3, H0012: 3, H0620: 3, L0439: 3, H0170: 2, H0550: 2, H0497: 2, H0052: 2, H0263: 2, H0031: 2, L0625: 2, L0769: 2, L0761: 2, L0372: 2, L0766: 2, L0438: 2, H0539: 2, L0777: 2, S0436: 2, L0604: 2, H0265: 1, H0295: 1, S0114: 1, L0417: 1, H0255: 1, H0663: 1, S0418: 1, S0356: 1, S0442: 1, S0444: 1, H0728: 1, S0007: 1, S0046: 1, S0476: 1, H0549: 1, H0441: 1, H0586: 1, L0622: 1, H0486: 1, H0599: 1, H0706: 1, H0618: 1, T0006: 1, S0366: 1, H0488: 1, H0100: 1, L0351: 1, T0042: 1, H0132: 1, S0002: 1, L0770: 1, L5566: 1, L0772: 1, L0373: 1, L0646: 1, L0764: 1, L0662: 1, L0649: 1, L0650: 1, L0774: 1, L0775: 1, L0658: 1, L0659: 1, H0593: 1, H0651: 1, S0330:	2q32		100690, 142989, 156232, 178600, 278250, 600258

878	HFKE535	829191	888	414 - 932	3485	Cys-162 to Gly-171.	1, S0152: 1, S0404: 1, S0406: 1, H0555: 1, H0631: 1, S0432: 1, L0744: 1, L0748: 1, H0445: 1, S0434: 1, L0485: 1, H0542: 1 and H0422: 1. L0809: 4, L0666: 4, L0756: 4, H0254: 3, H0012: 3, H0620: 3, L0439: 3, H0170: 2, H0550: 2, H0497: 2, H0052: 2, H0263: 2, H0031: 2, L0625: 2, L0769: 2, L0761: 2, L0372: 2, L0766: 2, L0438: 2, H0539: 2, L0777: 2, S0436: 2, L0604: 2, H0265: 2, S0436: 2, H0539: 2, L0777: 2, S0436: 2, L0604: 2, H0265: 1, H0295: 1, S0114: 1, L0417: 1, H0255: 1, H0663: 1, S0418: 1, S0356: 1, S0442: 1, S0444: 1, H0728: 1, S0007: 1, S0046: 1, S0476: 1, H0549: 1, H0441: 1, H0386: 1, L0622: 1, H0486: 1, H0599: 1, H0706: 1, H0618: 1, T0006: 1, S0366: 1, H0488: 1, H0100: 1, L0351: 1, T0042: 1, H0132: 1, S0002: 1, L0770: 1, L5566: 1, L0772: 1, L0373: 1, L0646: 1, L0764: 1, L0662: 1, L0649: 1, L0650: 1, L0774: 1, L0775: 1, L0658: 1, L0659: 1, H0593: 1, H0651: 1, S0330: 1, S0152: 1, S0404: 1, S0406: 1, H0555: 1, H0631: 1, S0432: 1, L0744: 1, L0748: 1, H0445: 1, S0434: 1, L0485: 1, H0542: 1 and H0422: 1. L0769: 12, L0755: 8, L0809: 7, L0439: 7, H0599: 4, H0012: 4, S0007: 3, H0424: 3, H0031: 3, L0752: 3, L0759: 3, H0428: 2, L0142: 2, H0063: 2, L0804: 2, L0775: 2, L0666: 2, L0750: 2, L0753: 2, L0758: 2, L0592:	2q32	100690, 142989, 156232, 178600, 278250, 600258
879	HFKEU17	815554	889	229 - 333	3486		9q22.1-q22.2	162400, 229700, 602014, 602088	

882	HPKF135	740752	892	211 - 408	3489	Gln-21 to Gly-27, Lys-35 to Tyr-42.	4, L0755: 4, H0013: 3, L0598: 3, H0144: 3, H0619: 2, H0012: 2, L0803: 2, L0791: 2, S0330: 2, H0478: 2, L0779: 2, S0196: 2, H0171: 1, S0040: 1, S6024: 1, H0295: 1, S0356: 1, L0717: 1, H0123: 1, H0050: 1, H0135: 1, H0412: 1, H0561: 1, L0637: 1, L0800: 1, L0648: 1, L0768: 1, L0650: 1, L0774: 1, L0806: 1, L0783: 1, L0809: 1, L0543: 1, L0789: 1, H0696: 1, S014: 1, L0758: 1 and S0242: 1. AR060: 3, AR316: 2, AR089: 1 H0620: 3, L0546: 3 and H0012: 1.	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
883	HPKFk49	847077	893	181 - 240	3490		AR089: 34, AR316: 26, AR060: 18 L0758: 8, L0766: 7, L0659: 7, H0255: 5, L0769: 4, L0748: 4, H0402: 3, L0776: 3, L0666: 3, L0754: 3, L0747: 3, H0556: 2, S0410: 2, S0132: 2, L0623: 2, L0586: 2, H0251: 2, S0366: 2, S0142: 2, L0770: 2, L0761: 2, L0764: 2, L0662: 2, L0561: 2, L0774: 2, L0805: 2, L0809: 2, L0665: 2, L0438: 2, S0330: 2, S0027: 2, L0743: 2, L0751: 2, L0604: 2, L0601: 2, H0140: 1, H0686: 1, H0657: 1, H0484: 1, S0418: 1, S0420: 1, L0005: 1, S0356: 1, H0549: 1, H0370: 1, H0318: 1, H0581: 1, H0052: 1, H0546: 1, H0011: 1, H0012: 1, S0362: 1, H0292: 1, H0617: 1, L0055: 1, H0616: 1, H0087: 1, H0551: 1, T0041: 1, H0561: 1, L0667: 1, L0772: 1, L0646:		

884	HFKFV88	732065	894	335 - 439	3491		1, L0643: 1, L0648: 1, L0768: 1, L0386: 1, L0381: 1, L0803: 1, L0655: 1, L0663: 1, L0664: 1, H0690: 1, H0660: 1, H0648: 1, S0328: 1, H0539: 1, S0378: 1, H0710: 1, H0521: 1, H0696: 1, H0555: 1, L0439: 1, L0740: 1, L0745: 1, L0777: 1, L0753: 1, L0755: 1, L0731: 1, L0594: 1, L0603: 1 and S0456: 1.		
885	HFKFV88	844371	895	695 - 802	3492	Glu-18 to Ser-23.	L0438: 4, L0439: 3, L0779: 3, L0785: 2, L0471: 2, S0038: 2, L0521: 2, S0116: 1, S0360: 1, H0637: 1, S0222: 1, H0486: 1, H0013: 1, H0004: 1, H0052: 1, H0012: 1, H0038: 1, H0616: 1, L0803: 1, L0789: 1, S0053: 1, L0731: 1, L0738: 1, L0599: 1 and L0594: 1.		
886	HFKFV88	852540	896	695 - 802	3493	Glu-18 to Ser-23.	L0438: 4, L0439: 3, L0779: 3, L0785: 2, L0471: 2, S0038: 2, L0521: 2, S0116: 1, S0360: 1, H0637: 1, S0222: 1, H0486: 1, H0013: 1, H0004: 1, H0052: 1, H0012: 1, H0038: 1, H0616: 1, L0803: 1, L0789: 1, S0053: 1, L0731: 1, L0758: 1, L0599: 1 and L0594: 1.		
887	HFKFX64	566835	897	127 - 171	3494		L0438: 4, L0439: 3, L0779: 3, L0785: 2, L0471: 2, S0038: 2, L0521: 2, S0116: 1, S0360: 1, H0637: 1, S0222: 1, H0486: 1, H0013: 1, H0004: 1, H0052: 1, H0012: 1, H0038: 1, H0616: 1, L0803: 1, L0789: 1, S0053: 1, L0731: 1, L0758: 1, L0599: 1 and L0594: 1.	18q11	114400, 257220, 257220
							AR273: 15, AR244: 9, AR274: 9, AR192: 9, AR184: 8, AR186: 8.		

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889	HFOX128	847385	899	331 - 474	3496	See 3 to Pro-13, Ala-38 to Gln-43.	<p>4, H0644: 3, L0769: 3, L0776: 3, L0755: 3, L0731: 3, L0757: 3, S0358: 2, S0474: 2, L0794: 2, L0803: 2, L0807: 2, L0771: 2, L0752: 2, L0601: 2, S0276: 2, H0624: 1, S0282: 1, H0097: 1, H0235: 1, H0545: 1, H0168: 1, L0770: 1, L0800: 1, L0773: 1, L0364: 1, L0775: 1, L0659: 1, L0783: 1, L0544: 1, L0791: 1, L0792: 1, L0666: 1, S0374: 1, S0044: 1, S0406: 1, L0744: 1, L0754: 1, L0759: 1 and L0599: 1.</p>		
							<p>AR089: 13, AR316: 9, AR060: 4 L0758: 26, H0616: 9, L0748: 9, S0410: 6, S0434: 6, L0534: 5, L0562: 4, H0271: 4, L0665: 4, S0052: 4, S0216: 4, L0439: 4, H0255: 3, S0442: 3, S0360: 3, H0370: 3, H0421: 3, H0179: 3, H0416: 3, L0646: 3, L0764: 3, L0662: 3, L0794: 3, L0803: 3, L0806: 3, L0663: 3, L0754: 3, L0749: 3, L0717: 2, H0550: 2, H0587: 2, H0620: 2, H0031: 2, L0667: 2, L0771: 2, L0648: 2, L0804: 2, L0775: 2, L0375: 2, L0653: 2, L0809: 2, L0666: 2, S0428: 2, S0053: 2, S0152: 2, L0759: 2, H0716: 1, S0624: 1, S0218: 1, H0656: 1, S0116: 1, S0282: 1, H0484: 1, H0663: 1, H0662: 1, H0458: 1, L0539: 1, S0356: 1, S0046: 1, H0619: 1, H0549: 1, S0222: 1, H0438: 1, H0333: 1, H0635: 1, T0082: 1, S0346: 1, H0318: 1, H0581: 1, H0052: 1, H0251: 1, H0309:</p>		

890	HFOYH74	610085	900	278 - 337	3497				1, H0046: 1, H0150: 1, L0471: 1, H0356: 1, H0594: 1, S0628: 1, H0252: 1, H0688: 1, H0622: 1, H0434: 1, H0417: 1, H0617: 1, H0674: 1, H0668: 1, H0135: 1, H0038: 1, H0063: 1, H0087: 1, H0059: 1, S0038: 1, H0494: 1, H0560: 1, S0472: 1, L4557: 1, L0770: 1, L0769: 1, L0637: 1, L0761: 1, L0800: 1, L0773: 1, L0385: 1, L0766: 1, L0649: 1, L0630: 1, L0774: 1, L0776: 1, L0518: 1, L0789: 1, L0438: 1, H0593: 1, S0126: 1, H0682: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, S0330: 1, H0579: 1, H0521: 1, S0404: 1, H0436: 1, S0037: 1, S0028: 1, L0743: 1, L0753: 1, H0445: 1, S0276: 1, H0543: 1, H0422: 1 and S0446: 1.
891	HFOYP02	608178	901	13 - 108	3498	Pro-24 to Glu-31.			S0276: 1
892	HFOYR24	866173	902	202 - 297	3499	Cys-26 to Lys-31.			S0276: 1
893	HFOYR54	743196	903	8 - 127	3500				H0031: 7, L0766: 4, L0747: 4, S0406: 3, L0759: 3, H0650: 2, H0050: 2, L0598: 2, L0662: 2, L0774: 2, L0527: 2, L0809: 2, L0666: 2, L0665: 2, H0659: 2, L0756: 2, L0779: 2, L0780: 2, L0485: 2, H0624: 1, H0661: 1, S0358: 1, S0046: 1, H0586: 1, H0331: 1, H0574: 1, H0632: 1, H0485: 1, H0013: 1, H0427: 1, L0021: 1, L0738: 1, S0003: 1, H0039: 1, H0673: 1, S0366: 1, H0038: 1, H0616: 1, T0067: 1, H0494: 1, H0561: 1, H0529: 1, L4747: 1, L0776: 1, L0657: 1, L0659: 1, L0664: 1, L0438: 2

894	HFOZB26	608177	904	199 - 231	3501		1, H0520: 1, H0547: 1, H0519: 1, S0126: 1, H0648: 1, H0672: 1, S0152: 1, H0436: 1, L0748: 1, L0758: 1, L0588: 1, L0589: 1, S0026: 1 and S0276: 1 S0114: 1, S0442: 1, H0729: 1, L0163: 1, H0271: 1, S0038: 1, S0028: 1, H0595: 1, S0436: 1 and S0276: 1		
895	HFPBF54	703186	905	347 - 400	3502		AR060: 13, AR316: 10, AR089: 8 L0599: 4, L0439: 3, L0777: 3, L0754: 2, L0745: 2, S0418: 1, S0222: 1, H0492: 1, H0051: 1, H0615: 1, L0805: 1, L0776: 1, S0028: 1, L0747: 1, S0026: 1 and H0542: 1		
896	HFPBF54	854776	906	347 - 400	3503		AR060: 13, AR316: 10, AR089: 8 L0599: 4, L0439: 3, L0777: 3, L0754: 2, L0745: 2, S0418: 1, S0222: 1, H0492: 1, H0051: 1, H0615: 1, L0805: 1, L0776: 1, S0028: 1, L0747: 1, S0026: 1 and H0542: 1		
897	HFPB193	853359	907	205 - 294	3504	Gly-19 to Gly-24.	AR060: 7, AR316: 6, AR089: 4 L0731: 4, L0439: 3, L0777: 3, S0222: 2, S0024: 1, H0441: 1, H0608: 1, H0052: 1, H0150: 1, H0644: 1, L0761: 1, L0789: 1, L0352: 1, S0406: 1, S3012: 1, L0779: 1 and L0758: 1	10q25.1	167409
898	HFPB164	610263	908	230 - 355	3505		AR060: 4, AR316: 3, AR089: 2 L0439: 9, L0438: 5, H0052: 4, S0222: 3, S0049: 2, S0026: 1, S0665: 1, S0346: 1, H0563: 1, H0566: 1, S0388: 1, S0036: 1		

899	HFPBQ55	608171	909	317 - 364	3506		1, S0386: 1, L0769: 1, L0638: 1, S0028: 1 and L0366: 1. S0222: 2, L0662: 2, L0745: 2, S6024: 1, H0492: 1, H0052: 1, L0598: 1, L0637: 1, L0794: 1, L0659: 1, H0648: 1, L0759: 1, L0681: 1 and S0196: 1.		
900	HFPCK22	827286	910	56 - 163	3507	Pro-17 to A1a-27.	L0748: 23, L0499: 17, L0747: 13, L0509: 11, L0500: 10, L0662: 10, L0803: 10, L0659: 9, L0665: 9, H0520: 9, H0547: 9, L0740: 9, L0752: 8, H0090: 7, L0666: 7, L0439: 7, L0745: 7, L0749: 7, L0750: 7, L0508: 6, L0754: 6, L0756: 6, L0758: 6, H0657: 5, H0013: 5, S0010: 5, L0794: 5, L0766: 5, S0380: 5, H0542: 5, H0156: 4, H0318: 4, H0052: 4, H0529: 4, L0498: 4, L0375: 4, L0789: 4, L0565: 4, H0658: 4, S0378: 4, L0731: 4, L0759: 4, L0591: 4, H0265: 3, S0212: 3, S0360: 3, S0222: 3, H0486: 3, H0046: 3, L0471: 3, H0644: 3, H0641: 3, L0769: 3, L0638: 3, L0493: 3, L0809: 3, H0670: 3, L0779: 3, L0755: 3, L0599: 3, H0667: 3, H0556: 2, H0341: 2, S0358: 2, S0045: 2, T0039: 2, H0575: 2, H0327: 2, H0428: 2, H0553: 2, L0455: 2, H0551: 2, H0412: 2, H0059: 2, S0038: 2, L0564: 2, H0494: 2, L0761: 2, L0804: 2, L0653: 2, L0655: 2, L0661: 2, L0514: 2, L0663: 2, L0664: 2, H0144: 2, L0438: 2, H0519: 2, H0682: 2, H0660: 2, H0666: 2, H0521: 2, H0436: 2, L0751: 2, L0753: 2, L0596: 2, L0592: 2.		

901	HFPCM32	608215	911	194 - 274	3508				L0593: 2, H0506: 2, H0624: 1, H0395: 1, H0686: 1, H0685: 1, S0342: 1, H0484: 1, H0255: 1, H0663: 1, H0305: 1, H0638: 1, S0442: 1, S0354: 1, H0637: 1, H0580: 1, H0619: 1, H0393: 1, H0640: 1, H0411: 1, H0175: 1, H0431: 1, H0592: 1, H0587: 1, H0497: 1, H0643: 1, H0069: 1, H0599: 1, H0004: 1, S0346: 1, H0421: 1, S0049: 1, H0263: 1, H0596: 1, H0050: 1, H0350: 1, S0428: 1, H0266: 1, H0687: 1, H0284: 1, S0250: 1, H0622: 1, T0023: 1, H0031: 1, H0628: 1, H0212: 1, S0364: 1, H0189: 1, H0124: 1, S0036: 1, H0135: 1, H0038: 1, H0040: 1, H0063: 1, H0272: 1, H0488: 1, T0041: 1, T0042: 1, H0625: 1, H0561: 1, S0440: 1, S0150: 1, H0649: 1, S0142: 1, H0538: 1, L0598: 1, L0505: 1, L0503: 1, L0640: 1, L0763: 1, L0373: 1, L0646: 1, L0643: 1, L0648: 1, L0388: 1, L0774: 1, L0631: 1, L0629: 1, L0657: 1, L0638: 1, L0512: 1, L0513: 1, L0634: 1, L0519: 1, L0647: 1, L0788: 1, L0790: 1, L0793: 1, H0435: 1, H0648: 1, H0651: 1, H0522: 1, H0704: 1, S0404: 1, H0345: 1, S0037: 1, S0304: 1, L0780: 1, L0757: 1, H0445: 1, L0480: 1, L0604: 1, S0106: 1, S0192: 1, H0543: 1, H0423: 1, H0422: 1, S0412: 1 and H0677: 1.	
902	HFPCM36	608237	912	57 - 158	3509				S0222: 1 L0439: 7, L0740: 5, L0758: 5, L0777: 4, L0764: 3, L0794: 1	18q22 174810, 601567, 602080

903	HFFCS84	542057	913	101 - 112	3510			3, L0766: 3, L0805: 3, L0665: 3, L0438: 3, S0354: 2, S0222: 2, H0632: 2, H0581: 2, L0809: 2, L0789: 2, L0565: 2, L0754: 2, L0749: 2, H0170: 1, H0171: 1, S0420: 1, H0411: 1, L0394: 1, H0574: 1, H0156: 1, S0010: 1, H0052: 1, H0263: 1, H0046: 1, H0375: 1, S0003: 1, L0483: 1, H0316: 1, H0591: 1, H0038: 1, L0763: 1, L0501: 1, L0638: 1, L0646: 1, L0773: 1, L0803: 1, L0774: 1, L0806: 1, L0776: 1, L0515: 1, L0659: 1, L0518: 1, L0666: 1, H0547: 1, H0365: 1, H0682: 1, H0660: 1, S0328: 1, S0330: 1, H0521: 1, S0404: 1, H0555: 1, L0756: 1, L0779: 1, L0759: 1 and L0594: 1.
								AR060: 6, AR316: 4, AR089: 3, S0222: 1
904	HFFCU47	741049	914	12 - 107	3511			S0222: 1
905	HFFCY66	825718	915	292 - 408	3512			AR089: 46, AR316: 31, AR060: 18, L0748: 2, S0222: 1, S0010: 1, L0540: 1, L0759: 1 and H0595: 1.
906	HFFDC65	839208	916	277 - 378	3513			H0658: 2, S0376: 1, S0222: 1, S0003: 1, T0023: 1, L0748: 1 and L0754: 1.
907	HFFDE42	844402	917	88 - 330	3514		Met-1 to Cys-7, Leu-21 to Leu-43, Pro-66 to Thr-71.	AR060: 3, AR316: 2, AR089: 1, L0439: 11, S0007: 2, L0770: 2, L0769: 2, L0794: 2, L0438: 2, S0222: 1, S0010: 1, S6028: 1, S0038: 1, L0789: 1, S014: 1, L0756: 1 and L0777: 1.
908	HFFDE88	561939	918	238 - 345	3515			S0222: 1 and S0031: 1.

909	HFPDO25	636185	919	401 - 466	3516		AR060: 6, AR316: 5, AR089: 3 L0771: 2, S0222: 1, H0575: 1, L0564: 1, L0790: 1 and L0777: 1.		
910	HFPDP70	745433	920	168 - 284	3517		AR089: 13, AR316: 10, AR060: 7 S0222: 1		
911	HFPDR39	834441	921	1455 - 1706	3518	See 34 to Arg-45.	AR089: 19, AR316: 14, AR060: 10 L0751: 10, L0748: 9, S0222: 6, L0438: 4, L0747: 4, S0356: 3, H0040: 3, S0344: 3, L0766: 3, L0809: 3, L0665: 3, S0380: 3, L0758: 3, H0624: 2, S0360: 2, S0010: 2, H0014: 2, H0399: 2, H0622: 2, S0038: 2, S0144: 2, S0002: 2, L0770: 2, L0803: 2, H0666: 2, L0439: 2, L0749: 2, L0596: 2, L0595: 2, S0218: 1, S0400: 1, H0483: 1, S0408: 1, S0045: 1, H0619: 1, H0393: 1, S0278: 1, H0250: 1, H0618: 1, H0253: 1, H0052: 1, H0457: 1, H0123: 1, H0242: 1, H0266: 1, H0687: 1, H0264: 1, H0102: 1, S0440: 1, H0641: 1, H0646: 1, L0763: 1, L0371: 1, L0794: 1, L0804: 1, L0776: 1, L0807: 1, L0788: 1, L0793: 1, L0664: 1, S0052: 1, H0144: 1, H0547: 1, H0689: 1, H0659: 1, H0648: 1, H0696: 1, H0134: 1, L0779: 1, S0434: 1 and L0605: 1.		2
912	HFPDX08	746379	922	64 - 360	3519	Met-1 to Arg-7, Ala-70 to Ser-77.	AR089: 67, AR316: 47, AR060: 29 H0023: 3, H0341: 2, S0046: 2, H0550: 2, H0559: 2, H0581: 2, L0766: 2, S0152: 2, S0014: 2, H0543: 2, H0556: 1, H0224:		

913	HPPEP69	835459	923	150 - 260	3520			1, H0225: 1, S0040: 1, H0295: 1, H0657: 1, S0418: 1, S0420: 1, S0376: 1, S0045: 1, S0222: 1, H0486: 1, H0013: 1, H0318: 1, H0052: 1, H0544: 1, H0620: 1, H0083: 1, H0266: 1, H0179: 1, H0628: 1, T0042: 1, H0509: 1, H0646: 1, S0344: 1, L0667: 1, S0053: 1, L0438: 1, H0658: 1, H0576: 1 and S0027: 1. AR060: 133, AR316: 94, AR089: 54 S0223: 1	
914	HFRALU40	701986	924	218 - 262	3521			AR089: 11, AR316: 10, AR060: 8 L0766: 7, L0803: 6, L0740: 6, L0745: 6, L0749: 6, H0052: 5, L0734: 3, L0770: 4, H0553: 3, L0790: 3, L0666: 3, L0748: 3, L0589: 3, H0543: 3, S0134: 2, S0444: 2, S0476: 2, H0393: 2, H0013: 2, H0599: 2, S0003: 2, H0674: 2, H0135: 2, L0794: 2, L0659: 2, L0789: 2, L0792: 2, H0144: 2, H0684: 2, H0539: 2, H0521: 2, S0028: 2, L0750: 2, L0779: 2, L0771: 2, L0752: 2, L0758: 2, H0542: 2, H0556: 1, H0716: 1, S0114: 1, H0650: 1, H0661: 1, S0442: 1, H0675: 1, S0045: 1, H0586: 1, T0114: 1, H0706: 1, H0318: 1, H0581: 1, H0123: 1, L0471: 1, H0620: 1, S0050: 1, H0014: 1, H0015: 1, S0031: 1, H0355: 1, H0416: 1, H0286: 1, H0328: 1, H0622: 1, T0006: 1, H0030: 1, H0031: 1, H0644: 1, L0055: 1, H0032: 1, H0124: 1, H0163: 1, H0038: 1, H0040: 1, H0616: 1, H0551:	

915	HFRAY90	846839	923	12 - 86	3522	1, H0264: 1, H0102: 1, S0112: 1, L0564: 1, H0280: 1, H0494: 1, S0002: 1, L0769: 1, L0642: 1, L0764: 1, L0662: 1, L0363: 1, L0773: 1, L0375: 1, L0631: 1, L0784: 1, L0806: 1, L0653: 1, L0655: 1, L0540: 1, S0374: 1, H0723: 1, H0547: 1, H0648: 1, H0672: 1, S0328: 1, H0522: 1, S0406: 1, H0436: 1, S0392: 1, L0731: 1, L0759: 1, S0031: 1, S0436: 1, L0588: 1, H0653: 1, S0192: 1 and H0352: 1, AR052: 53, AR309: 45, AR053: 36, AR310: 33, AR312: 30, AR213: 30, AR313: 27, AR265: 25, AR096: 13, AR271: 15, AR253: 14, AR248: 13, AR186: 13, AR033: 12, AR274: 12, AR055: 12, AR299: 11, AR270: 11, AR275: 11, AR263: 11, AR089: 11, AR290: 10, AR316: 10, AR300: 9, AR249: 9, AR296: 9, AR273: 8, AR269: 8, AR185: 8, AR104: 8, AR060: 8, AR268: 8, AR251: 8, AR247: 8, AR182: 7, AR298: 7, AR061: 7, AR192: 7, AR282: 7, AR286: 7, AR198: 7, AR240: 7, AR246: 6, AR177: 6, AR184: 6, AR204: 6, AR292: 6, AR280: 6, AR283: 5, AR267: 5, AR291: 5, AR295: 5, AR229: 5, AR284: 5,				
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916	HFSAY91	828067	926	132 - 281	3523		AR218: 5, AR285: 5, AR289: 5, AR219: 5, AR293: 5, AR266: 5, AR314: 4, AR175: 4, AR039: 4, AR202: 4, AR277: 4, AR205: 4, AR194: 4, AR206: 4, AR238: 4, AR294: 4, AR231: 4, AR233: 3, AR183: 3, AR256: 3, AR234: 3, AR179: 3, AR226: 3, AR281: 3, AR232: 3, AR237: 3, AR243: 3, AR258: 3, AR259: 2, AR227: 2, AR241: 2, AR315: 2, AR244: 2 L0439: 10, L0438: 4, H0251: 2, L0742: 2, S0046: 1, T0039: 1, H0427: 1, H0235: 1, H0178: 1, S0050: 1, T0010: 1, L0769: 1, L0805: 1, L0635: 1, H0520: 1, S0152: 1, S0190: 1, S0028: 1, L0747: 1, L0786: 1, L0779: 1, L0755: 1, L0758: 1 and S0242: 1 L0755: 3, S0420: 2, S0214: 2, H0547: 2, L0748: 2, L0731: 2, L0759: 2, H0657: 1, S0356: 1, H0057: 1, S0388: 1, L0794: 1, L0766: 1, L0805: 1, L0776: 1, H0519: 1, H0659: 1, H0651: 1, L0439: 1, L0779: 1, L0777: 1, L0780: 1, L0596: 1, L0599: 1 and S0026: 1.	21q22.1	147450, 176261, 253270, 601399
917	HFSBC10	638315	927	100 - 246	3524		AR221: 33, AR224: 19, AR225: 12, AR170: 9, AR176: 9, AR257: 9, AR165: 9, AR228: 9, AR223: 9, AR287: 9,		

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918	HFSBE94	600398	928	130 - 255	3525	Pro-36 to Arg-41.	H0057: 1 AR089: 54, AR316: 41, AR060: 29 S0212: 7, S0027: 5, S0278: 4, H0124: 4, L0766: 4, S0126: 4, H0521: 4, L0757: 4, H0657: 3, H0599: 3, S0144: 3, S0344: 3, H0539: 3, S0152: 3, S0028: 3, H0341: 2, H0305: 2, H0449: 2, T0040: 2, H0635: 2, H0123: 2, H0012: 2, H0271: 2, H0644: 2, H0628: 2, H0551: 2, H0494: 2, S0142: 2, H0547: 2, S0314: 2, L0754: 2, L0604: 2, S0040: 1, H0294: 1, T0049: 1, H0656: 1, H0663: 1, S0418: 1, S0420: 1, S0356: 1, S0358: 1, S0360: 1, S0408: 1, S0045: 1, S0046: 1, H0550: 1, S0220: 1, H0370: 1.
919	HFTANI1	638316	929	212 - 310	3526		

920	HFTAR27	566890	930	284 - 394	3527				<p>H0586: 1, H0333: 1, H0486: 1, H0069: 1, H0575: 1, H0706: 1, H0036: 1, H0253: 1, H0581: 1, H0052: 1, H0309: 1, H0327: 1, H0544: 1, H0081: 1, H0620: 1, H0023: 1, H0024: 1, H0014: 1, H0051: 1, T0010: 1, H0510: 1, H0266: 1, H0179: 1, S0022: 1, H0031: 1, H0553: 1, H0111: 1, H0616: 1, H0623: 1, T0041: 1, T0042: 1, H0429: 1, S0002: 1, L0709: 1, L0800: 1, L0794: 1, L0382: 1, L0789: 1, L0664: 1, L0565: 1, S0044: 1, S0037: 1, L0750: 1, L0779: 1, L0752: 1, L0758: 1, L0759: 1, L0601: 1, H0653: 1, H0665: 1, H0543: 1, S0424: 1 and H0506: 1.</p>		
									<p>L0758: 12, L0662: 11, H0251: 9, L0731: 9, S0360: 5, H0013: 5, L0659: 5, L0747: 5, H0252: 4, H0328: 4, L0666: 4, L0439: 4, S0436: 4, H0135: 3, L0764: 3, L0783: 3, L0749: 3, S0358: 2, L0776: 2, L0793: 2, L0663: 2, H0651: 2, L0744: 2, L0754: 2, H0713: 1, H0716: 1, H0675: 1, H0329: 1, H0619: 1, L0717: 1, H0369: 1, H0550: 1, H0333: 1, H0632: 1, H0486: 1, T0060: 1, H0042: 1, H0575: 1, H0618: 1, H0150: 1, H0123: 1, H0050: 1, H0105: 1, T0003: 1, H0024: 1, H0510: 1, H0594: 1, H0028: 1, H0644: 1, S0364: 1, S0366: 1, H0591: 1, H0100: 1, L0763: 1, L0631: 1, L0637: 1, L0646: 1, L0641: 1, L0644: 1, L0649: 1, L0803: 1, L0775: 1, L0782: 1, L0809: 1, L0519: 1,</p>		

921	HFTAK30	801906	931	242 - 412	3528	Ser-12 to Cys-40.	<p>L0665: 1, H0144: 1, H0726: 1, L0438: 1, H0684: 1, H0672: 1, S0380: 1, L0748: 1, L0759: 1, S0434: 1, L0596: 1, L0366: 1, L0600: 1 and H0352: 1.</p> <p>AR060: 26, AR316: 24, AR089: 22</p> <p>H0394: 7, S0344: 5, H0595: 4, H0373: 3, H0543: 3, S0260: 2, H0542: 2, S0412: 2, H0171: 1, S0282: 1, H0645: 1, S0222: 1, S0280: 1, H0123: 1, H0024: 1, S0388: 1, H0090: 1, S0352: 1, H0436: 1, L0747: 1, L0756: 1, L0759: 1, S0192: 1, S0194: 1, S0276: 1 and H0352: 1.</p>	14q24-q32	107970, 115650, 123270, 182600, 245200, 251600, 270100, 276900, 602091
922	HFTAS49	847386	932	249 - 320	3529		<p>L0750: 5, L0777: 5, L0731: 5, L0769: 4, L0761: 4, L0770: 3, L0731: 3, L0754: 3, L0779: 3, L0794: 2, L0766: 2, L0803: 2, L0776: 2, L0747: 2, L0752: 2, L0759: 2, H0657: 1, S0282: 1, S0376: 1, S0046: 1, H0392: 1, H0497: 1, H0635: 1, H0575: 1, S0049: 1, H0123: 1, L0471: 1, H0024: 1, L0051: 1, H0412: 1, H0560: 1, L0763: 1, L0772: 1, L0374: 1, L0375: 1, L0806: 1, L0805: 1, S0126: 1, H0522: 1, S0044: 1, L0745: 1, L0756: 1, L0755: 1 and L0604: 1.</p>	6p21.2	150270, 248611, 601690
923	HFTBB50	610015	933	94 - 504	3530	Asn-40 to Ala-55, Pro-73 to Arg-89, Arg-110 to Gly-116.	<p>AR251: 25, AR309: 24, AR053: 23, AR310: 21, AR052: 21, AR313: 19, AR312: 18, AR273: 18, AR274: 17, AR265: 15, AR266: 15, AR213: 15, AR263: 14, AR270: 12, AR285: 11, AR268: 11, AR247: 11, AR289: 11,</p>		

924	HFTBL17	844488	934	49 - 150	3531		H0255: 1, H0411: 1, S0280: 1, H0123: 1, S0031: 1, L0375: 1, H0539: 1, S0146: 1, L0748: 1 and L0597: 1.	
925	HFTBL17	863152	935	49 - 150	3532		H0255: 1, H0411: 1, S0280: 1, H0123: 1, S0031: 1, L0375: 1, H0539: 1, S0146: 1, L0748: 1 and L0597: 1.	
926	HFTCF02	603447	936	363 - 425	3533		L0741: 3, L0777: 3, L0439: 2, L0750: 2, L0594: 2, S0360: 1, H0261: 1, L0021: 1, H0123: 1, S0628: 1, L0768: 1, L0438: 1, L0757: 1 and S0276: 1.	15
927	HFTCI85	664487	937	250 - 276	3534		H0123: 1	
928	HFTCJ32	604911	938	206 - 313	3535		H0123: 1	
929	HFTCO17	844354	939	1672 - 1713	3536		AR060: 6, AR316: 6, AR089: 6 L0439: 9, L0794: 4, L0438: 3, L0740: 3, S0628: 2, L0770: 2, L0805: 2, L0809: 2, L0777: 2, L0753: 2, L0731: 2, H0170: 1, L0415: 1, L0005: 1, S0376: 1, H0486: 1, H0194: 1, L0157: 1, H0123: 1, H0531: 1, L0598: 1, L0662: 1, L0768: 1, L0766: 1, L0803: 1, L0663: 1, H0519: 1, H0684: 1, H0522: 1, L0779: 1, L0780: 1, L0758: 1 and S0260: 1.	
930	HFTCW07	604987	940	36 - 134	3537		L0623: 1 and H0123: 1.	
931	HFTDF32	600360	941	344 - 388	3538		H0024: 2, H0543: 2, H0208: 1, T0082: 1, H0123: 1, H0560: 1, H0509: 1, H0521: 1 and H0423: 1.	
932	HFTDF79	827459	942	617 - 712	3539		AR184: 6, AR194: 5, AR265: 5, AR263: 4, AR313: 4, AR273: 4, AR192: 3, AR186: 3, AR268: 3, AR060: 3.	

933	HFTDK11	837382	943	139 - 699	3540	<p>Glu-9 to Lys-16, Leu-44 to Leu-51, Gly-65 to Glu-84, Arg-131 to Tyr-137, Thr-147 to Ala-160, Ser-180 to Phe-185.</p>	<p>AR055: 3, AR251: 3, AR206: 3, AR202: 3, AR061: 3, AR204: 3, AR052: 3, AR243: 3, AR309: 3, AR182: 3, AR282: 3, AR270: 3, AR299: 2, AR312: 2, AR185: 2, AR053: 2, AR089: 2, AR277: 2, AR284: 2, AR275: 2, AR247: 2, AR213: 2, AR291: 2, AR316: 2, AR267: 2, AR253: 2, AR033: 2, AR238: 2, AR249: 2, AR310: 2, AR283: 2, AR271: 2, AR294: 2, AR096: 2, AR266: 2, AR237: 2, AR300: 2, AR240: 2, AR298: 2, AR205: 2, AR039: 2, AR269: 2, AR183: 1, AR233: 1, AR296: 1, AR295: 1, AR286: 1, AR226: 1, AR292: 1, AR175: 1, S0426: 2, H0123: 1 and S0152: 1.</p>		<p>H0123: 3, L0439: 3, L0759: 3, H0620: 2, H0024: 2, H0063: 2, H0519: 2, H0539: 2, H0696: 2, L0754: 2, L0683: 2, S0114: 1, H0583: 1, H0305: 1, S0418: 1, S0420: 1, L0005: 1, S0360: 1, H0208: 1, S0045: 1, S0046: 1, L0717: 1, H0431: 1, H0587: 1, H0486: 1, H0318: 1, H0581: 1, H0050: 1, L0471: 1, H0012: 1, S0388: 1, T0010: 1, H0083: 1, H0594: 1, H0028: 1, S0003: 1, H0615: 1, H0634: 1, T0042:</p>
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934	HFTDU08	825715	944	216 - 293	3541				1, H0561: 1, L0638: 1, L0794: 1, L0766: 1, L0659: 1, L0783: 1, L0664: 1, H0701: 1, L0438: 1, H0520: 1, H0547: 1, S0126: 1, H0521: 1, L0742: 1, L0748: 1, L0745: 1, L0747: 1, L0750: 1, L0755: 1, L0366: 1 and H0506: 1.		
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935	HFGK67	569778	945	375 - 440	3542				H0393: 2 and S0116: 1.	8q22	216550, 259730
936	HFVHD38	826709	946	2083 - 2163	3543				AR061: 6, AR206: 6, AR186: 5, AR204: 4, AR215: 4, AR217: 4, AR310: 4, AR202: 4, AR273: 4, AR263: 3, AR282: 3, AR221: 3, AR238: 3, AR052: 3, AR275: 3, AR163: 3, AR161: 3, AR246: 3, AR269: 3, AR243: 3, AR265: 3, AR171: 3, AR162: 3, AR226: 3, AR228: 3, AR229: 3, AR234: 3, AR205: 3, AR096: 2, AR182: 2, AR222: 2, AR170: 2, AR274: 2, AR266: 2, AR055: 2, AR284: 2, AR248: 2, AR313: 2, AR299: 2, AR253: 2, AR181: 2, AR298: 2, AR291: 2, AR165: 2, AR172: 2, AR233: 2, AR164: 2, AR224: 2, AR237: 2, AR267: 2, AR311: 2, AR216: 2.		

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0 9 5 0 0 3 0 1 2 0

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938	HFVIC33	799524	948	462 - 743	3545	Lys-86 to Gly-93.	1, L0756: 1, L0777: 1, L0780: 1, S0031: 1, H0445: 1, L0589: 1, L0590: 1, L0592: 1, L0366: 1, H0667: 1, S0276: 1, S0424: 1 and H0506: 1. AR089: 9, AR316: 9, AR060: 9 L0754: 10, L0766: 8, L0803: 8, L0777: 8, L0362: 5, L0758: 4, L0599: 4, S0278: 3, S0002: 3, L0794: 3, S0126: 3, L0740: 3, L0752: 3, H0661: 2, S0358: 2, H0208: 2, H0393: 2, H0486: 2, H0013: 2, S0010: 2, H0581: 2, S0003: 2, T0067: 2, L0564: 2, H0494: 2, S0208: 2, S0422: 2, L0663: 2, L0747: 2, L0755: 2, L0731: 2, H0542: 2, H0170: 1, H0171: 1, H0395: 1, H0556: 1, T0002: 1, S0134: 1, H0583: 1, H0650: 1, H0657: 1, H0638: 1, S0354: 1, S0376: 1, S0360: 1, T0008: 1, H0637: 1, T0109: 1, H0156: 1, H0098: 1, H0590: 1, H0046: 1, H0050: 1, L0471: 1, H0024: 1, H0428: 1, T0006: 1, L0055: 1, H0124: 1, H0708: 1, H0090: 1, H0591: 1, H0616: 1, H0063: 1, H0625: 1, S0438: 1, L0520: 1, L0763: 1, L0637: 1, L0646: 1, L0764: 1, L0771: 1, L0662: 1, L0804: 1, L0775: 1, L0784: 1, L0790: 1, H0547: 1, H0519: 1, S0378: 1, S0152: 1, L0612: 1, S0027: 1, S0028: 1, L0748: 1, L0745: 1, L0750: 1, L0780: 1, L0759: 1, S0031: 1, L0592: 1, S0194: 1 and H0422: 1.	6q22.1-q24.1	120110, 121014, 156225, 164200, 164200, 600320, 601410, 601757
939	HFVAK32	638319	949	46 - 84	3546	L0439: 12, S0192: 6, H0591: 1			

940	HF5AK59	83141	950	962 - 1003	3547				4, L0731: 3, S0210: 2, H0144: 2, L0755: 2, H0624: 1, S0342: 1, S0001: 1, S0356: 1, S0360: 1, S0222: 1, H0486: 1, H0156: 1, S0346: 1, H0543: 1, N0006: 1, S0051: 1, H0594: 1, H0266: 1, H0623: 1, L0770: 1, L0771: 1, L0803: 1, L0783: 1, L0666: 1, L0664: 1, L0438: 1, L0748: 1, L0747: 1, L0750: 1, L0780: 1, L0757: 1, L0605: 1, L0592: 1 and L0366: 1. AR060: 7, AR316: 6, AR089: 5 L0747: 6, L0766: 4, L0749: 4, L0362: 4, H0046: 3, L0666: 3, S0126: 3, S0132: 2, H0013: 2, L0777: 2, L0758: 2, L0596: 2, H0624: 1, H0341: 1, S0001: 1, S0360: 1, S0408: 1, S0278: 1, H0370: 1, T0114: 1, H0083: 1, H0553: 1, H0606: 1, H0090: 1, H0038: 1, H0616: 1, H0269: 1, H0059: 1, H0561: 1, H0641: 1, S0142: 1, L0520: 1, L0641: 1, L0764: 1, L0805: 1, L0526: 1, L0664: 1, H0702: 1, H0659: 1, H0658: 1, H0660: 1, H0666: 1, S0330: 1, H0539: 1, H0696: 1, S0406: 1, S3014: 1, S0027: 1, L0755: 1, L0731: 1, L0759: 1, L0589: 1, H0136: 1, H0422: 1 and S0452: 1. S0001: 1 L0438: 3, S0001: 1, H0013: 1, S0010: 1, L0439: 1, L0731: 1 and L0758: 1. S0001: 1 and S0038: 1. S0001: 1	2	
941	HF5BI64	567419	951	146 - 265	3548						
942	HF5BL05	740753	952	203 - 391	3549						
943	HF5BM52	737672	953	232 - 324	3550						
944	HF5BR58	655949	954	263 - 337	3551						

945	HFXBV67	748230	955	52 - 189	3552		Gln-49 to Gly-54, Pro-56 to His-63, Phe-89 to Asp-95, Ser-119 to Arg-125.	AR060: 1 S0001: 1 and S0360: 1.		
946	HFXBY20	603523	956	89 - 496	3553			AR060: 4, AR316: 3, AR089: 2 S0001: 1		
947	HFXCB70	603524	957	179 - 238	3554		Ser-14 to Lys-19.	S0001: 1 and L0502: 1.		
948	HFXCI42	606806	958	275 - 355	3555		Ser-12 to Arg-26.	AR060: 7, AR316: 6, AR089: 5 S0001: 1		
949	HFXCL59	825713	959	278 - 322	3556			AR060: 6, AR316: 5, AR089: 4 S0001: 2, S0022: 2, L0803: 2, L0471: 1, H0551: 1, H0625: 1 and L0777: 1.		
950	HFXCM22	589953	960	49 - 63	3557			H0099: 2, S0001: 1 and H0415: 1.		
951	HFXCN18	581057	961	48 - 74	3558			S0001: 1		115660, 139250, 148500, 150200, 154275, 162100, 170500, 170500, 170500, 182452, 230200, 249000, 253250
952	HFXCS53	828903	962	237 - 347	3559			L0766: 12, H0659: 5, L0749: 5, S0410: 4, S0422: 4, H0650: 3, H0341: 3, H0032: 3, H0529: 3, L0646: 3, H0520: 3, H0547: 3, H0521: 3, L0748: 3, H0423: 3, H0657: 2, S0280: 2, H0266: 2, H0090: 2, H0040: 2, L0803: 2, L0804: 2, L0666: 2, H0658: 2, H0672: 2, L0756: 2, L0757: 2, L0759: 2, S0424: 2, H0170: 1, H0556: 1, H0656: 1, S0001: 1, H0662: 1, S0418: 1, S0420: 1, S0444: 1, H0728: 1, S0045: 1, L0717: 1, H0486: 1, H0318: 1, H0596: 1, T0110: 1, H0024: 1, H0428: 1, H0616: 1, H0551: 1, H0560: 1, H0625: 1, S0440: 1, H0647: 1, L0520: 1, L0763: 1, L0764: 1, L0521: 1, L0774: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0635: 1, L0809:		

953	HF XD B37	569805	963				1, L0789; 1, L0663; 1, L0665; 1, S0374; 1, H0519; 1, H0435; 1, H0670; 1, H0134; 1, S0406; 1, H0555; 1, L0439; 1, L0750; 1, L0777; 1, L0752; 1, L0755; 1, L0758; 1, L0608; 1, H0542; 1 and H0422; 1.			
954	HF XD I32	580193	964				S0001: 1			
							AR060: 4, AR316: 3, AR089: 1			
955	HF XD I43	560641	965				S0001: 1	12q23-24.1		124200, 147440, 160781, 181405, 235800, 261600, 261600, 600175, 601406, 601620, 601621
956	HF XD L76	821571	966			Met-1 to Pro-6.	S0001: 1, H0271: 1 and H0135: 1.			
957	HF XD M75	638171	967				S0001: 1			
958	HF XD O18	638172	968				AR060: 7, AR316: 6, AR089: 5			
959	HF XD R44	590269	969				S0001: 3			
960	HF XD R08	621342	970				S0001: 1, H0549: 1, L0743: 1 and H0445: 1.			
961	HF XD R28	621300	971				S0001: 1			
962	HF XD R28	873859	972				S0001: 1			
963	HF XD R47	846477	973				S0001: 1, H0549: 1, L0743: 1 and H0445: 1.	17p13.2		
							AR060: 20			
							AR089: 50, AR316: 34, H0255: 5, S0001: 3, L0771: 2, H0254: 1, H0305: 1, S0360: 1, H0550: 1, H0497: 1, H0486: 1, S0036: 1, H0412: 1, L0662: 1, L0794: 1, L0523: 1 and L0743: 1.			
964	HF XD Z03	846323	974				S0001: 1 and S0216: 1.			
965	HF XD S33	823197	975			Gln-20 to Gln-25.	S0001: 1			
966	HF XD E88	838822	976				S0001: 1			

967	HFXHR32	534607	977	267 - 317	3574		S0001: 1	
968	HFXTGT51	638174	978	42 - 263	3575		S0001: 1	
969	HFXTGW16	825701	979	125 - 400	3576	His-19 to Ser-25, Thr-34 to Met-48, Ser-73 to Phe-81.	S0001: 2 and H0392: 1.	
970	HFXTHC15	608243	980	158 - 256	3577		S0001: 1, S0132: 1 and H0392: 1.	
971	HFXTHI33	874255	981	240 - 359	3578		S0218: 1 and S0001: 1.	
972	HFXTHL21	581363	982	70 - 159	3579	Asn-21 to Ser-29.	AR089: 6, AR316: 5, AR060: 5	
973	HFXTHL83	564658	983	217 - 405	3580		S0001: 1	
974	HFXTHM49	825693	984	302 - 532	3581		AR244: 9, AR263: 6, AR184: 4, AR282: 4, AR052: 4, AR055: 4, AR309: 4, AR061: 3, AR251: 3, AR053: 3, AR253: 3, AR060: 3, AR312: 3, AR270: 3, AR213: 3, AR265: 3, AR286: 3, AR310: 2, AR033: 2, AR182: 2, AR185: 2, AR267: 2, AR089: 2, AR300: 2, AR289: 2, AR268: 2, AR285: 2, AR266: 2, AR283: 2, AR096: 2, AR313: 2, AR299: 2, AR298: 2, AR316: 2, AR277: 2, AR296: 2, AR284: 2, AR247: 2, AR192: 1, AR269: 1, AR290: 1, AR295: 1	
975	HFXTHM93	858720	985	307 - 519	3582		S0001: 1	
976	HFXTN89	786196	986	138 - 242	3583		S0001: 3 and S0134: 1.	
977	HFXTJB21	743165	987	232 - 396	3584		AR089: 6, AR316: 5, AR060: 3	
							S0282: 1 and L0600: 1.	

978	HFXJN93	596815	988	197 - 331	3585		S0282: 2, S0051: 2 and L0002: 1.		
979	HFXJIS15	800866	989	356 - 379	3586		AR089: 6, AR316: 6, AR060: 5 S0007: 5, L0747: 5, L0439: 4, H0024: 2, L0663: 2, L0759: 2, L0594: 2, S6024: 1, S0282: 1, S0354: 1, S0222: 1, H0013: 1, H0156: 1, S0010: 1, T0110: 1, L0471: 1, S6028: 1, H0551: 1, H0623: 1, S0386: 1, L0769: 1, L0639: 1, L0772: 1, L0800: 1, L0773: 1, L0776: 1, L0666: 1, H0144: 1, S0406: 1, S0028: 1, L0756: 1, L0779: 1, L0777: 1, L0480: 1, L0596: 1 and L0592: 1.	4	
980	HFXJT53	823591	990	111 - 196	3587	Thr-44 to Gln-49, Gly-55 to Pro-69, His-78 to Tyr-85, Arg-193 to Asn-199, Asn-203 to Tyr-214, Glu-230 to Glu-235, Asp-261 to Ala-266, Glu-292 to Tyr-301.			
981	HFXKG56	621395	991	273 - 386	3588		AR060: 1 H0521: 4, L0731: 4, H0542: 3, H0556: 2, H0222: 2, S0282: 2, H0635: 2, H0063: 2, L0662: 2, L0794: 2, L0766: 2, L0665: 2, H0518: 2, L0748: 2, H0140: 2, S0298: 1, S0356: 1, H0250: 1, L0021: 1, H0575: 1, H0039: 1, H0622: 1, H0644: 1, H0598: 1, H0090: 1, L0475: 1, H0641: 1, H0529: 1, L0659: 1, L0664: 1, S0052: 1, S0428: 1, H0144: 1, H0689: 1, H0435: 1, H0658: 1, H0648: 1, H0522: 1, H0576: 1, L0749: 1, S0031: 1, S0260: 1, H0543: 1, H0423: 1, H0422: 1 and L0600: 1.		
982	HFXKL60	895307	992	210 - 311	3589		S0282: 1, L0387: 1 and L0518: 1 L0754: 8, H0052: 6, H0428: 6, L0752: 6, L0766: 5, L0748: 5, H0445: 5, S0434: 5, H0674: 4, L0655: 4, L0740: 4, H0556: 1		

0896303 = 081207

3, H0255: 3, L0157: 3, H0090: 3, S0002: 3, L0438: 3, H0521: 3, L0756: 3, H0543: 3, H0170: 2, S0114: 2, S0358: 2, S0300: 2, H0431: 2, H0455: 2, L0471: 2, H0031: 2, H0553: 2, H0673: 2, H0038: 2, H0551: 2, S0466: 2, S0422: 2, L0369: 2, L0662: 2, L0768: 2, L0775: 2, L0805: 2, L0659: 2, L0663: 2, H0144: 2, H0658: 2, S0330: 2, S0380: 2, L0439: 2, L0747: 2, L0779: 2, L0777: 2, L0758: 2, L0759: 2, L0593: 2, L0362: 2, H0423: 2, H0171: 1, S0040: 1, S6024: 1, S0134: 1, H0657: 1, H0341: 1, S0110: 1, S0282: 1, H0589: 1, H0638: 1, L0005: 1, S0444: 1, S0360: 1, H0619: 1, H0393: 1, H0261: 1, S0222: 1, H0461: 1, H0602: 1, H0574: 1, H0486: 1, T0039: 1, H0156: 1, L0021: 1, H0599: 1, H0581: 1, S0049: 1, H0597: 1, H0009: 1, H0050: 1, H0266: 1, S0318: 1, S0334: 1, S0003: 1, S0214: 1, H0032: 1, H0166: 1, H0212: 1, H0591: 1, H0477: 1, H0264: 1, H0413: 1, S0386: 1, T0042: 1, H0494: 1, H0625: 1, H0366: 1, S0438: 1, H0633: 1, H0538: 1, H0529: 1, L0520: 1, L0769: 1, L0638: 1, L0373: 1, L0646: 1, L0650: 1, L0776: 1, L0607: 1, L0657: 1, L0526: 1, L0783: 1, L0528: 1, L0647: 1, L0790: 1, L0791: 1, L0664: 1, L0665: 1, S0374: 1, H0520: 1, S0126: 1, H0682: 1, H0670: 1, H0648: 1, H0518: 1, S0136: 1, H0696: 1, H0627:
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983	HFXLG08	885514	993	306 - 620	3590	Pro-75 to Asn-80.	AR089: 7, AR316: 6, AR060: 6 S0282: 1				153900, 180381, 227500, 227600, 238970
984	HFXLK91	827288	994	120 - 1319	3591	Ser-62 to Lys-68, Ala-125 to Asp-134, Pro-391 to Ser-398.	AR060: 5, AR089: 4, AR316: 3, AR282: 2, AR182: 2, AR313: 2, AR226: 2, AR309: 1, AR186: 1, AR310: 1 H0707: 7, S0194: 3, S0474: 2, H0031: 2, H0494: 2, H0547: 2, S0144: 2, S0027: 2, S0026: 2, H0713: 1, S0298: 1, S0282: 1, H0664: 1, S0442: 1, S0354: 1, H0580: 1, S0476: 1, H0431: 1, H0392: 1, S0346: 1, H0421: 1, H0052: 1, H0150: 1, S0388: 1, H0083: 1, H0252: 1, H0604: 1, H0551: 1, H0412: 1, S0440: 1, H0529: 1, H0520: 1, S0126: 1, H0658: 1, S0330: 1, H0436: 1, S3012: 1, L0750: 1 and S0242: 1.	13q34			
985	HFXLM32	866446	995	378 - 449	3592		AR204: 5, AR060: 4, AR310: 4, AR312: 3, AR055: 3, AR253: 3, AR309: 3, AR052: 3, AR213: 3, AR263: 3, AR313: 3, AR202: 3, AR186: 2, AR316: 2, AR251: 2, AR061: 2, AR265: 2, AR192: 2, AR089: 2, AR053: 2, AR183: 2, AR269: 2, AR277: 2, AR033: 2.				

986	HGBAX83	722222	996	151 - 270	3593				AR247: 2, AR299: 2, AR282: 2, AR266: 2, AR273: 2, AR104: 2, AR283: 2, AR238: 2, AR270: 2, AR185: 2, AR237: 2, AR233: 2, AR096: 2, AR231: 2, AR295: 1, AR300: 1, AR206: 1, AR275: 1, AR226: 1, AR289: 1, AR291: 1, AR293: 1, AR205: 1, AR232: 1, AR292: 1, AR177: 1, S0282: 1 and H0550: 1.	
987	HGBBR29	823106	997	251 - 436	3594	Lys-24 to Tyr-40, Pro-42 to Ser-48.			H0014: 1 L0740: 7, S0192: 6, S0360: 4, L0471: 4, H0547: 4, L0754: 4, L0747: 4, S0418: 3, L0766: 3, L0659: 3, H0519: 3, L0439: 3, L0779: 3, L0591: 3, H0543: 3, H0024: 2, H0031: 2, H0553: 2, L0769: 2, L0771: 2, L0662: 2, H0520: 2, L0749: 2, L0757: 2, L0758: 2, L0485: 2, H0422: 2, T0002: 1, H0657: 1, S0212: 1, H0671: 1, S0358: 1, H0637: 1, T0114: 1, H0013: 1, L0105: 1, H0581: 1, T0110: 1, H0015: 1, H0083: 1, H0510: 1, S0250: 1, S0003: 1, H0212: 1, H0090: 1, H0551: 1, H0494: 1, L0475: 1, S0450: 1, H0132: 1, H0633: 1, S0142: 1, L0598: 1, H0529: 1, L0642: 1, L0768: 1, L0381: 1, L0803: 1, L0774: 1, L0375: 1, L0805: 1, L0657: 1, L0789: 1, L0663: 1, L0665: 1, S0126: 1, H0689: 1, H0690: 1, H0521: 1, H0522: 1, H0436: 1, S0028: 1, L0748: 1, L0752: 1, L0753:	

988	HGBDL51	862023	998	25 - 171	3595			1, L0731: 1, L0597: 1, L0592: 1, L0608: 1, L0595: 1, S0011: 1, S0026: 1, S0194: 1, H0542: 1 and H0423: 1. S0434: 3, S0442: 2, H0031: 2, H0644: 2, H0623: 2, H0436: 2, L0740: 2, L0750: 2, S0360: 1, S0045: 1, H0645: 1, H0592: 1, H0497: 1, H0599: 1, L0471: 1, H0014: 1, L0032: 1, S0306: 1, H0509: 1, H0646: 1, L0598: 1, L0761: 1, L0768: 1, L0794: 1, L0766: 1, L0657: 1, L0517: 1, S0004: 1, L0777: 1, L0753: 1, H0445: 1, S0026: 1 and H0542: 1.		
989	HGBDV35	581058	999	52 - 267	3596			L0748: 5, H0599: 4, H0521: 4, S0360: 3, H0575: 3, L0471: 3, H0014: 3, L0483: 3, H0494: 3, L0770: 3, L0769: 3, L0771: 3, S0384: 3, H0170: 2, H0662: 2, H0036: 2, H0375: 2, H0266: 2, H0040: 2, S0450: 2, H0647: 2, L0657: 2, L0659: 2, S0126: 2, H0672: 2, S0152: 2, H0631: 2, L0750: 2, S0242: 2, H0171: 1, H0556: 1, H0294: 1, S0218: 1, H0583: 1, H0650: 1, H0341: 1, S0418: 1, S0420: 1, S0358: 1, S0132: 1, H0549: 1, H0586: 1, H0486: 1, T0040: 1, L0021: 1, H0590: 1, L0105: 1, H0318: 1, T0110: 1, H0544: 1, H0046: 1, H0015: 1, H0510: 1, S0003: 1, H0252: 1, H0428: 1, H0644: 1, H0111: 1, H0628: 1, H0674: 1, H0264: 1, S0370: 1, S0150: 1, H0641: 1, H0633: 1, S0422: 1, H0517: 1, L0640: 1, L0646: 1, L0641: 1, L0764: 1, L0794: 1.	9p21	108120, 112250, 247640, 600160, 600221, 601606

990	HGBDX28	665520	1000	231 - 254	3597				1, L0766: 1, L0649: 1, L0803: 1, L0775: 1, L0806: 1, L0655: 1, L0787: 1, S0374: 1, H0519: 1, H0639: 1, S0350: 1, S0454: 1, S0390: 1, S0027: 1, S0206: 1, L0439: 1, L0745: 1, L0732: 1, L0731: 1, S0194: 1, S0196: 1, H0543: 1 and H0423: 1.	2		
									L0749: 7, L0766: 6, L0748: 6, L0771: 6, L0770: 2, L0794: 2, L0659: 2, L0666: 2, S0328: 2, L0744: 2, L0747: 2, L0731: 2, S0114: 1, H0661: 1, S0418: 1, S0360: 1, L0717: 1, H0587: 1, H0123: 1, H0050: 1, H0014: 1, L0763: 1, L0769: 1, L0800: 1, L0645: 1, L0803: 1, L0805: 1, L0657: 1, L0519: 1, L0789: 1, L0663: 1, S0374: 1, H0559: 1, L0751: 1, L0750: 1, L0756: 1, L0752: 1, L0758: 1, L0599: 1 and H0293: 1.			
991	HGBGX31	824177	1001	548 - 730	3598	Asp-52 to Ser-59.			AR060: 5, AR316: 4, AR089: 2, L0731: 5, H0623: 3, L0439: 3, H0413: 2, H0100: 2, L0803: 2, L0546: 2, H0661: 1, H0497: 1, H0486: 1, H0014: 1, H0412: 1, L0773: 1, L0794: 1, L0809: 1, L0791: 1, H0658: 1, S0406: 1, S014: 1, L0744: 1, L0750: 1, L0759: 1 and H0543: 1.			
992	HGBHE23	832303	1002	243 - 458	3599	Arg-24 to Asn-39, Ser-43 to Pro-61.			AR060: 14, AR316: 14, AR089: 13, L0747: 10, L0742: 9, L0731: 7, L0758: 7, L0752: 6, H0318: 5, L0769: 4, S0358: 3, H0046: 3, L0771: 3, L0776: 3, L0748: 3, L0749: 3, L0750: 3, L0759: 3, S0046: 2, H0455: 2, L0763: 2.	2		

993	HGBH15	608170	1003	30 - 122	3600					2, L0774: 2, L0518: 2, L0755: 2, L0362: 2, S0342: 1, H0381: 1, H0662: 1, S0444: 1, S0278: 1, H0370: 1, H0438: 1, L0623: 1, T0040: 1, H0427: 1, S0280: 1, H0599: 1, H0251: 1, H0085: 1, H0235: 1, H0544: 1, H0086: 1, H0009: 1, H0565: 1, L0471: 1, H0620: 1, H0014: 1, S0388: 1, S0051: 1, H0510: 1, H0266: 1, H0238: 1, H0328: 1, H0615: 1, H0124: 1, H0708: 1, H0040: 1, H0625: 1, H0641: 1, H0647: 1, L0372: 1, L0646: 1, L0662: 1, L0766: 1, L0784: 1, L0517: 1, S0374: 1, H0660: 1, H0651: 1, H0539: 1, S0152: 1, H0522: 1, H0696: 1, S0174: 1, S0390: 1, S0028: 1, L0754: 1, L0745: 1, L0779: 1, L0780: 1, L0757: 1, S0260: 1, L0592: 1, H0667: 1 and H0423: 1.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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995	HGLAG32	668271	1005	39 - 143	3602	Phe-17 to Trp-23, Thr-27 to Pro-34.	1, S0222: 1, H0441: 1, H0497: 1, S0280: 1, H0706: 1, H0618: 1, S0010: 1, H0309: 1, H0231: 1, H0327: 1, H0009: 1, S0051: 1, T0010: 1, H0266: 1, H0188: 1, H0252: 1, H0039: 1, H0622: 1, H0708: 1, H0551: 1, H0379: 1, H0509: 1, H0646: 1, S0210: 1, H0529: 1, L0369: 1, L0641: 1, L0773: 1, L0803: 1, L0774: 1, L0806: 1, L0661: 1, L0658: 1, L0659: 1, L0792: 1, L0663: 1, H0593: 1, H0539: 1, H0555: 1, L0612: 1, S3014: 1, L0742: 1, L0744: 1, L0748: 1, L0751: 1, L0777: 1, L0752: 1, L0759: 1, L0603: 1, H0668: 1 and H0422: 1.		310300, 310400, 310460, 310460, 311300, 311510, 314300, 314400
996	HGLAH08	704084	1006	162 - 248	3603		L0747: 3, L0794: 2, L0758: 2, H0351: 1, L0776: 1, L0740: 1, L0731: 1, L0605: 1 and L0465: 1. H0351: 77, L0748: 7, L0747: 7, L0752: 7, L0770: 5, L0758: 5, H0052: 4, L0766: 4, L0774: 4, L0666: 4, L0749: 4, H0171: 3, H0661: 3, L0615: 3, L0646: 3, L0803: 3, L0804: 3, L0663: 3, L0740: 3, L0759: 3, S0358: 2, S0408: 2, H0331: 2, H0244: 2, H0620: 2, H0058: 2, L0763: 2, L0775: 2, L0776: 2, L0659: 2, L0809: 2, L0789: 2, L0665: 2, H0547: 2, H0660: 2, S0152: 2, H0694: 2, L0439: 2, L0755: 2, L0596: 2, L0362: 2, L0601: 2, H0265: 1, H0556: 1, S0024: 1, S0212: 1, H0255: 1, H0669: 1, H0449: 1, S0420: 1, S0442: 1, S0444: 1, H0733: 1, H0393:		

999	HGLBG15	701990	1009	191 - 271	3606	<p>2, S0412: 2, H0624: 1, H0265: 1, T0002: 1, S6024: 1, S0114: 1, S0430: 1, H0583: 1, H0650: 1, S0116: 1, S0212: 1, S0282: 1, H0305: 1, H0589: 1, S0420: 1, S0358: 1, S0376: 1, H0728: 1, H0351: 1, H0431: 1, H0601: 1, H0592: 1, H0587: 1, H0497: 1, H0331: 1, H0632: 1, H0069: 1, H0156: 1, H0004: 1, S0346: 1, H0596: 1, H0327: 1, H0544: 1, H0546: 1, H0545: 1, H0178: 1, H0050: 1, H0620: 1, H0246: 1, H0015: 1, H0051: 1, H0510: 1, S6028: 1, H0179: 1, H0615: 1, H0428: 1, H0313: 1, H0038: 1, H0268: 1, T0041: 1, S0438: 1, S0440: 1, H0517: 1, L5575: 1, L0761: 1, L0794: 1, L0804: 1, L0784: 1, L0633: 1, L0526: 1, L0647: 1, L0367: 1, L0789: 1, L0791: 1, L0792: 1, L0666: 1, S0052: 1, L0565: 1, S0126: 1, H0683: 1, H0658: 1, H0670: 1, H0660: 1, S0146: 1, H0555: 1, H0576: 1, H0478: 1, L0748: 1, L0756: 1, L0777: 1, L0780: 1, L0759: 1, S0434: 1, S0436: 1, L0480: 1, S0242: 1, S0194: 1, H0542: 1 and H0422: 1.</p>	
						<p>AR162: 7, AR161: 7, AR163: 7, AR060: 6, AR191: 6, AR089: 6, AR197: 6, AR261: 6, AR269: 5, AR170: 5, AR176: 5, AR165: 5, AR316: 5, AR188: 5, AR164: 5, AR189: 5, AR291: 5, AR166: 5, AR246: 5, AR190: 5.</p>	

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1001	HGLDA95	862035	1011	39 - 257	3608		1, H0031: 1, H0040: 1, H0634: 1, H0551: 1, H0264: 1, H0623: 1, H0100: 1, H0509: 1, S0422: 1, L0520: 1, L0769: 1, L0764: 1, L0662: 1, L0774: 1, L0375: 1, L0523: 1, L0809: 1, S0148: 1, H0520: 1, H0547: 1, H0689: 1, H0658: 1, S0380: 1, H0521: 1, H0704: 1, H0479: 1, L0439: 1, L0740: 1, L0754: 1, L0608: 1, L0594: 1, S0194: 1 and S0276: 1.	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
1002	HGLDB06	855945	1012	310 - 429	3609		AR060: 6, AR316: 5, AR089: 4 L0769: 2, L0771: 2, L0662: 2, L0766: 2, L0649: 2, L0774: 2, S0028: 2, L0731: 2, H0224: 1, H0686: 1, H0650: 1, S0116: 1, S0360: 1, S0045: 1, H0351: 1, S0222: 1, H0575: 1, H0618: 1, H0390: 1, H0327: 1, H0081: 1, H0051: 1, S6028: 1, H0271: 1, H0551: 1, H0056: 1, S0144: 1, L0639: 1, L0803: 1, L0789: 1, S0126: 1, H0684: 1, H0666: 1, H0521: 1, H0522: 1, S0190: 1, S0037: 1, L0748: 1, L0747: 1, L0749: 1, S0434: 1, L0361: 1 and L0366: 1.		
1003	HGLDE15	840364	1013	254 - 340	3610		L0438: 3, S0028: 3, L0502: 2, L0514: 2, L0511: 2, L0752: 2, H0265: 1, L0415: 1, H0208: 1, H0351: 1, H0550: 1, H0086: 1, H0123: 1, L0507: 1, L0506: 1, L0533: 1, H0144: 1 and L0747: 1.		
							L0779: 5, L0157: 2, L0803: 2, L0754: 2, L0595: 2, H0305: 1, H0589: 1, H0351: 1, L0021: 1, H0318: 1, H0596: 1, S0144: 1	1q25.2	145001, 150292, 208250, 600995, 601652

1004	HHBBI14	862026	1014	268 - 414	3611	Pro-33 to Ser-42.	1, L0364: 1, L0766: 1, L0809: 1, L0532: 1, H0667: 1 and H0542: 1. AR060: 5, AR316: 5, AR089: 4 L0748: 14, L0439: 12, H0619: 5, L0438: 5, H0618: 4, L0740: 4, H0253: 3, H0617: 3, H0265: 2, H0556: 2, S0049: 2, H0052: 2, H0545: 2, H0620: 2, H0373: 2, L0769: 2, L0803: 2, L0653: 2, L0517: 2, L0666: 2, H0670: 2, H0521: 2, L0741: 2, L0750: 2, L0777: 2, L0755: 2, L0596: 2, L0601: 2, H0422: 2, S0114: 1, H0650: 1, H0657: 1, S0116: 1, H0663: 1, H0589: 1, S0420: 1, S0408: 1, H0580: 1, H0393: 1, S0278: 1, H0370: 1, H0586: 1, H0574: 1, H0486: 1, H0013: 1, H0244: 1, H0250: 1, H0635: 1, H0156: 1, S0346: 1, H0318: 1, H0581: 1, H0421: 1, H0231: 1, H0123: 1, H0012: 1, S0030: 1, L0163: 1, H0201: 1, H0071: 1, H0188: 1, H0687: 1, H0252: 1, H0328: 1, H0032: 1, L0455: 1, H0598: 1, H0090: 1, H0634: 1, H0063: 1, T0067: 1, H0059: 1, L0351: 1, T0041: 1, H0494: 1, S0438: 1, H0132: 1, H0207: 1, H0647: 1, S0344: 1, S0002: 1, H0529: 1, L0763: 1, L0761: 1, L0764: 1, L0771: 1, L0773: 1, L0662: 1, L0766: 1, L0804: 1, L0774: 1, L0775: 1, L0378: 1, L0806: 1, L0659: 1, L0636: 1, L0809: 1, L0664: 1, H0144: 1, H0689: 1, H0658: 1, H0660: 1, H0539: 1, H0696: 1
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1005	HIBGL33	862027	1015	219 - 284	3612			H0576: 1, S0027: 1, L0745: 1, L0749: 1, L0757: 1, L0758: 1, L0584: 1, L0591: 1, L0681: 1, H0542: 1, H0543: 1, S0424: 1 and H0552: 1. AR060: 3, AR316: 2, AR089: 1 L0623: 2, H0050: 2, L0021: 1, H0373: 1, L0768: 1 and S0330: 1.		
1006	HHEAW44	821654	1016	58 - 168	3613		Asn-10 to His-26.	H0556: 1, H0486: 1, L0663: 1 and H0542: 1.		
1007	HHEBP28	775744	1017	72 - 236	3614		Gln-44 to Cys-52.	L0748: 3, L0759: 2, H0549: 1, H0085: 1, H0051: 1, H0494: 1, L0662: 1, L0805: 1, L0776: 1, L0807: 1, L0809: 1, L0438: 1, H0539: 1, L0740: 1, S0031: 1, S0192: 1 and H0542: 1.	3p24,3-p22.1	154705, 182280, 190160, 227646, 261510, 600163, 601154
1008	HHECK41	898182	1018	51 - 401	3615		Asn-35 to Gln-40, Pro-56 to Phe-67, Gly-70 to Ser-75, Phe-93 to Cys-98.	AR060: 7, AR316: 6, AR089: 6 L0766: 6, H0543: 5, L0754: 4, H0318: 3, H0659: 3, S0114: 2, H0341: 2, H0264: 2, L0665: 2, H0445: 2, H0422: 2, S0134: 1, S0218: 1, H0662: 1, H0411: 1, H0392: 1, H0083: 1, H0634: 1, H0087: 1, T0041: 1, L0387: 1, L0776: 1, L0748: 1, L0747: 1, L0750: 1, L0779: 1 and H0542: 1.	X	
1009	HHECR10	621371	1019	128 - 226	3616			H0542: 1.		
1010	HHEMC55	566796	1020	54 - 194	3617		Arg-33 to Ser-38.	AR313: 61, AR173: 58, AR096: 45, AR196: 44, AR300: 40, AR218: 39, AR161: 38, AR165: 37, AR166: 36, AR164: 36, AR299: 36, AR162: 35, AR258: 35, AR240: 35, AR089: 35, AR229: 34,		

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1011	HHEMM20	603534	1021	282 - 410	3618		AR289: 10, AR227: 9, AR266: 9, AR198: 9, AR201: 9, AR243: 8, AR232: 8, AR245: 8, AR210: 8, AR211: 7, AR207: 7, AR250: 6, AR205: 6, AR283: 6, AR246: 5, AR168: 5, AR252: 4, AR253: 4, AR215: 4, AR055: 4, AR061: 3, AR222: 3, AR171: 3, AR224: 2, AR217: 2, AR216: 2, AR223: 2, AR225: 2, AR169: 1 H0543: 1		
1012	HHEMM80	610264	1022	31 - 138	3619	Thr-26 to Lys-36.	AR060: 2, AR316: 1, AR089: 1 H0543: 1		
1013	HHEMP35	821328	1023	1334 - 1489	3620	Ser-19 to Gln-36.	H0543: 2 AR089: 47, AR316: 35, AR060: 25 L0751: 6, L0666: 5, L0662: 4, L0749: 4, L0777: 4, L0731: 4, H0046: 3, L0783: 3, H0648: 3, H0295: 2, H0600: 2, H0586: 2, H0328: 2, H0032: 2, H0038: 2, H0616: 2, L0771: 2, L0766: 2, L0809: 2, L0663: 2, L0743: 2, L0756: 2, L0757: 2, H0556: 1, S0040: 1, H0650: 1, T0008: 1, H0580: 1, S0045: 1, H0441: 1, L0468: 1, T0039: 1, T0040: 1, T0060: 1, S0280: 1, L0022: 1, H0309: 1, S0214: 1, H0428: 1, H0135: 1, H0488: 1, T0041: 1, H0494: 1, H0561: 1, S0002: 1, L0763: 1, L0770: 1, L0769: 1, L0638: 1, L0764: 1, L0768: 1, L0649: 1, L0803: 1, L0774: 1	1q21	104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 602491

1014	HHMZ08	840026	1024	70 - 390	3621	Pro-35 to Gly-46, Leu-65 to Arg-78, Pro-88 to Ser-94.	1, L0775: 1, L0375: 1, L0805: 1, L0654: 1, L0776: 1, L0661: 1, L0639: 1, L0382: 1, L0664: 1, L0665: 1, H0520: 1, H0660: 1, H0436: 1, S014: 1, L0439: 1, L0752: 1, L0759: 1, L0595: 1 and H0543: 1		
1015	HHENC17	826646	1025	187 - 297	3622		AR089: 13, AR316: 11, AR600: 8 L0777: 13, L0766: 6, L0803: 4, L0752: 4, L0769: 3, L0794: 3, L0747: 3, L0755: 3, L0805: 2, L0776: 2, L0655: 2, L0659: 2, H0547: 2, L0759: 2, L0596: 2, H0650: 1, S0360: 1, S0010: 1, H0150: 1, H0024: 1, H051: 1, H0533: 1, H0090: 1, H0412: 1, L0761: 1, L0771: 1, L0363: 1, L0804: 1, H0519: 1, S0122: 1, H0435: 1, H0658: 1, H0648: 1, L0740: 1, L0750: 1, L0757: 1, H0543: 1 and H0423: 1, L0748: 6, L0604: 6, L0766: 5, L0749: 4, H0536: 3, H0013: 3, H0024: 3, L0779: 3, H0543: 3, H0123: 2, H0674: 2, H0633: 2, L0662: 2, L0776: 2, H0547: 2, H0170: 1, H0171: 1, S0114: 1, S0218: 1, H0341: 1, S0001: 1, H0305: 1, H0638: 1, S0420: 1, S0354: 1, S0358: 1, S0476: 1, H0369: 1, S0222: 1, T0060: 1, H0590: 1, L0738: 1, H0050: 1, H0375: 1, H0266: 1, H0615: 1, H0591: 1, H0264: 1, T0041: 1, L0794: 1, L0561: 1, L0803: 1, L0805: 1, L0665: 1, H0520: 1, H0519: 1, H0684: 1, H0660: 1, H0555: 1, S0392: 1, L0777: 1, L0759: 1, H0595: 1, H0653:		

1016	HIENP95	709685	1026	206 - 262	3623		1 and H0542: 1. AR089: 57, AR316: 41, AR060: 27 H0543: 2, S0134: 1, L0604: 1 and H0552: 1.		
1017	HIENR74	825671	1027	5 - 193	3624	Thr-44 to His-51.	H0543: 1		
1018	HIENU33	560844	1028	143 - 235	3625		AR162: 5, AR161: 5, AR311: 4, AR163: 4, AR096: 4, AR263: 4, AR313: 4, AR165: 4, AR164: 4, AR166: 4, AR308: 4, AR225: 4, AR238: 3, AR178: 3, AR183: 3, AR269: 3, AR275: 3, AR296: 3, AR264: 3, AR271: 3, AR177: 3, AR089: 3, AR312: 3, AR309: 3, AR245: 3, AR180: 3, AR176: 3, AR295: 3, AR229: 3, AR213: 3, AR297: 3, AR289: 3, AR286: 3, AR268: 3, AR272: 3, AR239: 3, AR169: 3, AR270: 3, AR237: 3, AR214: 3, AR179: 3, AR228: 2, AR175: 2, AR290: 2, AR285: 2, AR267: 2, AR231: 2, AR221: 2, AR182: 2, AR234: 2, AR293: 2, AR287: 2, AR274: 2, AR216: 2, AR174: 2, AR060: 2, AR240: 2, AR185: 2, AR282: 2, AR230: 2, AR300: 2, AR039: 2, AR236: 2, AR181: 2, AR316: 2, AR217: 2, AR226: 2, AR232: 2.		

1019	HHENY07	638321	1029	87 - 143	3626				AR053: 2, AR233: 2, AR266: 2, AR173: 2, AR061: 2, AR222: 2, AR204: 2, AR227: 2, AR104: 2, AR288: 2, AR210: 2, AR223: 2, AR291: 2, AR235: 1, AR033: 1, AR294: 1, AR277: 1, AR299: 1, AR055: 1, AR243: 1, AR168: 1, AR224: 1, AR261: 1, AR211: 1, AR283: 1, AR171: 1 H0543: 1	1p22	170995, 191540, 274270, 274270, 600309, 601414, 602094		
1020	HHEOK77	841099	1030	790 - 954	3627				AR089: 4, AR316: 4, AR060: 3 S0007: 2, H0170: 1, S0218: 1, H0393: 1, H0586: 1, L0768: 1, L0766: 1, H0521: 1, L0740: 1, L0747: 1, L0756: 1, L0731: 1 and H0543: 1. L0766: 13, L0731: 7, S0360: 6, S0152: 6, H0144: 5, L0590: 4, H0543: 4, H0341: 3, H0575: 3, H0251: 3, S0003: 3, L0747: 3, L0749: 3, L0599: 3, S0212: 2, H0592: 2, H0497: 2, H0486: 2, H0013: 2, H0318: 2, H0038: 2, H0040: 2, H0623: 2, H0560: 2, L0775: 2, S0122: 2, H0521: 2, S0028: 2, L0743: 2, L0751: 2, L0752: 2, L0757: 2, H0445: 2, L0604: 2, S0194: 2, L0600: 2, H0159: 1, S0134: 1, L0785: 1, H0662: 1, H0402: 1, L0481: 1, S0420: 1, S0356: 1, S0358: 1, H0393: 1, H0431: 1, H0612: 1, H0587: 1, T0039: 1, H0427: 1, L0021: 1, H0599: 1, H0004: 1, H0581: 1, H0421: 1, H0544:				

1021	HHEPE72	621254	1031	344 - 376	3628				1, H0545: 1, L0471: 1, H0014: 1, L0163: 1, H0083: 1, H0510: 1, H0375: 1, S0022: 1, S0214: 1, H0622: 1, H0316: 1, H0551: 1, H0264: 1, H0100: 1, H0494: 1, H0509: 1, S0002: 1, S0426: 1, L0369: 1, L0761: 1, L0772: 1, L0764: 1, L0571: 1, L0662: 1, L0635: 1, S0374: 1, H0520: 1, S0126: 1, H0660: 1, S0328: 1, H0539: 1, S0380: 1, H0522: 1, L0754: 1, L0758: 1, L0759: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1, S0026: 1, H0667: 1, H0136: 1, H0542: 1, S0424: 1 and H0506: 1.
1022	HHEPE81	840614	1032	1393 - 1416	3629				H0543: 1 AR089: 8, AR316: 7, AR060: 6 L0803: 11, L0439: 10, L0755: 10, L0747: 9, L0759: 9, L0794: 8, L0750: 8, H0657: 7, L0766: 7, L0752: 7, L0804: 6, H0547: 6, L0740: 6, S0192: 6, H0543: 6, S0412: 6, H0529: 5, L0754: 5, L0753: 5, L0731: 5, S0040: 4, H0580: 4, H0013: 4, H0032: 4, H0090: 4, H0591: 4, S0360: 3, H0574: 3, H0266: 3, S0003: 3, H0615: 3, H0428: 3, H0413: 3, L0768: 3, L0805: 3, L0776: 3, L0809: 3, L0666: 3, L0663: 3, H0144: 3, L0745: 3, L0758: 3, H0423: 3, H0422: 3, H0624: 2, H0170: 2, H0638: 2, S0356: 2, S0358: 2, S0132: 2, H0415: 2, L0021: 2, H0052: 2, H0313: 2, H0638: 2, L0351: 2, L0520: 2, L0770: 2, L0764: 2, L0657: 2, L0659: 2, L0438:

1024	НННННН	799533	1034	476 - 613	3631	1, H0014: 1, H0375: 1, S0003: 1, H0391: 1, H0040: 1, H0625: 1, H0561: 1, L0637: 1, L0761: 1, L0667: 1, L0773: 1, L0784: 1, L0805: 1, L0657: 1, L0658: 1, L0526: 1, L0787: 1, L0663: 1, H0682: 1, H0435: 1, H0478: 1, L0779: 1, L0755: 1, L0759: 1, L0362: 1, S0026: 1 and H0506: 1.
1025	НННННН	799533	1035	180 - 188	3632	AR060: 2, AR316: 1, H0543: 2, H0592: 1 and H0555: 1.
1026	НННННН	701991	1036	131 - 265	3633	H0543: 1, L0748: 9, L0731: 7, L0771: 6, L0759: 6, H0013: 5, L0764: 4, L0747: 4, L0758: 4, H0265: 3, H0039: 3, H0038: 3, L0769: 3, L0766: 3, L0773: 3, H0144: 3, L0755: 3, S0444: 2, H0318: 2, H0050: 2, L0471: 2, H0266: 2, L0374: 2, L0649: 2, L0663: 2, L0664: 2, H0547: 2, S0126: 2, H0670: 2, L0740: 2, L0754: 2, L0750: 2, L0593: 2, H0667: 2, H0170: 1, H0171: 1, H0685: 1, H0662: 1, S0354: 1, S0360: 1, H0580: 1, H0151: 1, S0045: 1, H0357: 1, H0586: 1, H0331: 1, H0574: 1, H0635: 1, H0575: 1, H0263: 1, H0596: 1, H0545: 1, H0012: 1, H0620: 1, H0350: 1, H0355: 1, H0510: 1, H0428: 1, H0604: 1, H0031: 1, H0553: 1, S0366: 1, H0040: 1, H0616: 1, H0063: 1, H0059: 1, H0560: 1, H0561: 1, H0529: 1, L0640: 1, L0637: 1, L0761: 1, L0772: 1, L0646: 1, L0774: 1, L0375: 1, L0805: 1, L0653: 1, L0382: 1.

1027	HHFC181	847387	1037	68 - 181	3634	Arg-24 to His-32.	1, L0352: 1, S0152: 1, S0350: 1, H0521: 1, H0696: 1, S0044: 1, H0627: 1, S0027: 1, L0749: 1, L0752: 1, H0595: 1, L0591: 1, L0595: 1, L0361: 1, S0011: 1, S0194: 1, S0276: 1 and H0423: 1. L0438: 6, L0439: 6, L0776: 4 3, L0756: 3, L0805: 2, H0341: 1, H0261: 1, S0222: 1, H0013: 1, S0010: 1, H0052: 1, H0050: 1, H0373: 1, S0388: 1, H0416: 1, S0036: 1, L0435: 1, L0745: 1, L0684: 1 and L0596: 1.
1028	HHFCN78	638179	1038	161 - 256	3635	Ala-24 to Lys-31.	S0116: 1, H0030: 1, L0438: 1 and L0740: 1. L0439: 13, L0776: 7, L0766: 6, L0771: 5, L0742: 4, L0731: 4, L0758: 4, L0664: 3, L0747: 3, L0752: 3, H0294: 2, H0263: 2, H0688: 2, L0770: 2, L0764: 2, L0803: 2, L0805: 2, L0602: 2, L0754: 2, L0756: 2, L0779: 2, H0707: 2, L0608: 2, S0134: 1, H0661: 1, H0664: 1, S0356: 1, S0444: 1, S0408: 1, H0486: 1, S0010: 1, S0049: 1, H0050: 1, L0471: 1, S0003: 1, H0428: 1, L0483: 1, H0031: 1, H0617: 1, H0059: 1, L0761: 1, L0800: 1, L0642: 1, L0794: 1, L0515: 1, L0659: 1, L0518: 1, L0809: 1, L0665: 1, L0438: 1, S0330: 1, H0521: 1, H0522: 1, H0445: 1, S0434: 1, H0667: 1 and H0423: 1.
1029	HHFCT95	581059	1039	24 - 92	3636		
1030	HHFDN16	598713	1040	183 - 275	3637		AR274: 161, AR263: 158, AR247: 155, AR211: 150, AR210: 137, AR053: 131, AR272: 129, AR245: 129,

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1031	HHFEB79	1300768	1041	120 - 2390	3638	Ala-31 to Val-38, Pro-63 to Gly-68, Gly-74 to Cys-87, Pro-93 to Asp-104, Arg-109 to Ser-121, Gln-128 to Thr-133, Thr-148 to Ser-163, Pro-170 to Leu-179, Val-183 to Ser-195, Pro-202 to Asp-219, Thr-243 to Lys-287, Leu-290 to Thr-307, Pro-309 to Ala-323, Pro-325 to Glu-331, Ser-333 to Lys-341, Lys-347 to Lys-354, Pro-364 to Ser-376, Ser-386 to Thr-399,	AR215: 14, AR225: 11, AR217: 8, AR089: 8, AR221: 8, AR235: 7, AR161: 7, AR162: 7, AR163: 7, AR170: 7, AR172: 6, AR216: 6, AR168: 6, AR176: 6, AR183: 6, AR316: 6, AR269: 6, AR171: 5, AR182: 5, AR224: 5, AR060: 5, AR233: 5, AR214: 5, AR296: 5, AR180: 4, AR266: 4, AR222: 4, AR181: 4, AR228: 4, AR290: 4, AR263: 4, AR178: 4, AR173: 4, AR247: 4, AR257: 4, AR270: 4,				

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1033	HHFEN34	701992	1043	270 - 293	3640	<p>4, L0748: 4, L0604: 4, S0414: 3, L0770: 3, L0805: 3, L0776: 3, L0783: 3, S0328: 3, L0740: 3, L0754: 3, L0745: 3, L0731: 3, L0759: 3, H0583: 2, L0717: 2, H0052: 2, T0010: 2, H0266: 2, H0428: 2, H0031: 2, L0774: 2, L0806: 2, L0659: 2, L0809: 2, H0144: 2, L0777: 2, H0716: 1, L0002: 1, H0657: 1, H0255: 1, H0305: 1, S0007: 1, H0645: 1, H0261: 1, H0550: 1, S0222: 1, H0586: 1, T0040: 1, H0013: 1, S0280: 1, S0010: 1, L0103: 1, T0071: 1, H0194: 1, H0263: 1, H0566: 1, H0050: 1, L0471: 1, H0024: 1, H0051: 1, S0024: 1, H0355: 1, H0510: 1, H0271: 1, H0328: 1, H0039: 1, L0483: 1, H0032: 1, H0124: 1, S0036: 1, H0591: 1, H0038: 1, H0616: 1, H0412: 1, H0646: 1, S0422: 1, S0002: 1, H0529: 1, L0520: 1, L0364: 1, L0649: 1, L0497: 1, L0526: 1, L0789: 1, L0666: 1, L0663: 1, S0374: 1, H0689: 1, H0670: 1, H0648: 1, S0330: 1, H0522: 1, L0747: 1, L0779: 1, L0752: 1, L0758: 1, H0595: 1, L0608: 1, L0594: 1, L0603: 1, S0026: 1, S0192: 1, H0423: 1 and H0506: 1</p>
						<p>AR060: 7, AR316: 6, AR089: 5 H0050: 1 and L0766: 1, L0741: 18, L0766: 10, L0438: 9, H0052: 6, L0748: 6, H0622: 5, H0617: 5, L0665: 5, H0539: 5, H0542: 5, S0418: 4, H0553: 4, H0039: 4, H0494: 4,</p>
1034	HHFZ01	847388	1044	288 - 395	3641	17

L0666: 4, H0521: 4, L0751: 4, L0750: 4, L0758: 4, L0759: 4, L0593: 4, L0595: 4, H0543: 4, H0656: 3, H0484: 3, S0420: 3, H0706: 3, H0086: 3, H0009: 3, H0050: 3, H0124: 3, H0087: 3, T0042: 3, H0509: 3, L0770: 3, L0761: 3, L0772: 3, L0771: 3, L0768: 3, L0497: 3, L0776: 3, L0659: 3, L0664: 3, L0439: 3, L0740: 3, L0591: 3, H0556: 2, S0212: 2, H0661: 2, S0442: 2, S0358: 2, S0360: 2, H0393: 2, S0278: 2, H0333: 2, H0544: 2, H0545: 2, H0046: 2, H0041: 2, H0292: 2, S0036: 2, H0135: 2, H0100: 2, L0764: 2, L0533: 2, L0499: 2, L0806: 2, L0653: 2, L0382: 2, L0809: 2, S0374: 2, H0547: 2, H0435: 2, H0436: 2, S0028: 2, L0747: 2, L0752: 2, L0755: 2, L0757: 2, H0136: 2, L0411: 1, H0624: 1, H0265: 1, T0002: 1, H0222: 1, S0040: 1, H0716: 1, H0650: 1, H0657: 1, H0341: 1, S0282: 1, H0255: 1, H0125: 1, S0376: 1, H0676: 1, H0580: 1, H0208: 1, S0045: 1, S0476: 1, H0645: 1, L0717: 1, H0437: 1, H0586: 1, H0497: 1, H0632: 1, H0349: 1, H0575: 1, H0618: 1, H0253: 1, H0318: 1, H0421: 1, H0235: 1, H0572: 1, H0571: 1, H0012: 1, H0197: 1, H0024: 1, H0373: 1, H0051: 1, T0010: 1, H0594: 1, H0288: 1, H0328: 1, H0428: 1, L0142: 1, S0364: 1, H0040: 1, H0616: 1, H0551: 1, H0264: 1, H0268: 1, H0412: 1, T0041: 1, S0440: 1,
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1035	HHFG171	663531	1045	62 - 160	3642	Ser:20 to Phe:31.	H0030: 1	S0144: 1, S0142: 1, S0210: 1, H0695: 1, L0369: 1, L0763: 1, L0769: 1, L5565: 1, L0667: 1, L0646: 1, L0643: 1, L0648: 1, L0649: 1, L0774: 1, L0775: 1, L0375: 1, L0651: 1, L0653: 1, L0658: 1, L0383: 1, L0663: 1, H0519: 1, H0658: 1, H0670: 1, H0648: 1, H0696: 1, H0134: 1, H0555: 1, H0576: 1, S3014: 1, S0032: 1, L0745: 1, L0749: 1, L0731: 1, H0445: 1, S0434: 1, L0581: 1, L0361: 1, H0668: 1, S0276: 1, L0469: 1, H0422: 1 and S0460: 1.		
1036	HHFG154	731870	1046	68 - 121	3643		H0052: 18, L0743: 10, L0439: 9, L0742: 7, S0007: 6, S0222: 6, L0779: 6, H0013: 5, H0031: 5, L0809: 5, H0581: 4, L0157: 4, L0769: 4, H0144: 4, S0045: 3, S0049: 3, H0551: 3, L0518: 3, L0741: 3, L0744: 3, L0777: 3, S0260: 3, H0667: 3, H0650: 2, L0717: 2, H0261: 2, H0455: 2, H0438: 2, H0333: 2, H0486: 2, S0010: 2, H0194: 2, H0123: 2, H0201: 2, L0455: 2, H0135: 2, H0038: 2, S0038: 2, L0662: 2, L0776: 2, L0438: 2, S0152: 2, H0521: 2, L0748: 2, L0740: 2, L0747: 2, L0786: 2, L0758: 2, H0445: 2, L0592: 2, L0441: 1, H0265: 1, H0556: 1, H0685: 1, S0114: 1, S0282: 1, S0029: 1, S0420: 1, L0005: 1, S0358: 1, S0046: 1, S0300: 1, H0437: 1, H0441: 1, H0392: 1, H0244: 1, S0280: 1, T0082: 1, S0346: 1, H0434: 1, H0545: 1.	11pier-11p15.5		

1044	HHGAT09	603526	1054	314 - 364	3651		1. L0666: 1 and H0008: 1. S0192: 7, L0747: 5, H0004: 4, L0666: 4, L0740: 4, S0360: 3, H0046: 3, H0529: 3, L0750: 3, L0777: 3, L0757: 3, S0474: 2, H0615: 2, H0622: 2, H0617: 2, L0598: 2, L0769: 2, L0659: 2, H0547: 2, S0188: 2, L0731: 2, L0758: 2, L0759: 2, H0170: 1, S0470: 1, H0713: 1, H0583: 1, S0001: 1, H0669: 1, S0358: 1, H0075: 1, S0408: 1, H0580: 1, H0455: 1, H0333: 1, T0040: 1, H0013: 1, L0021: 1, S0010: 1, H0545: 1, H0023: 1, H0356: 1, H0124: 1, H0551: 1, H0264: 1, S0372: 1, S0344: 1, UNKWN: 1, L0637: 1, L0372: 1, L0646: 1, L0374: 1, L0364: 1, L0766: 1, L0561: 1, L0774: 1, L0776: 1, L0657: 1, L0526: 1, L0543: 1, H0519: 1, H0659: 1, H0539: 1, H0627: 1, S0028: 1, L0756: 1, H0445: 1, L0592: 1 and L0462: 1	15q21.3-q22.31	109700, 151670, 600374, 601780
1045	HHGBC21	840455	1055	121 - 225	3652		L0666: 8, S0414: 7, L0731: 7, H0169: 4, L0659: 4, L0759: 4, H0673: 3, L0526: 3, H0659: 3, H0657: 2, S0376: 2, H0427: 2, H0428: 2, H0674: 2, H0412: 2, L0770: 2, L0662: 2, L0775: 2, L0633: 2, L0663: 2, S0053: 2, S0126: 2, H0648: 2, S0328: 2, S0330: 2, S0392: 2, L0439: 2, L0777: 2, H0445: 2, L0599: 2, H0685: 1, H0650: 1, S0116: 1, H0662: 1, H0402: 1, S0356: 1, L0717: 1, H0333: 1, H0331: 1, H0574: 1, H0632: 1, H0486: 1, H0270: 1, L0586: 1, L0021:		

1046	HHGBP91	603907	1056	36 - 176	3653	Trp-13 to Leu-20.	1, T0048: 1, H0421: 1, H0596: 1, H0597: 1, H0150: 1, H0050: 1, H0015: 1, H0083: 1, H0399: 1, H0510: 1, S0214: 1, H0553: 1, H0316: 1, H0087: 1, H0511: 1, T0004: 1, L0351: 1, S0344: 1, H0529: 1, L0520: 1, L0762: 1, L0638: 1, L0637: 1, L0764: 1, L0766: 1, L0803: 1, L0650: 1, L0776: 1, L0655: 1, L0538: 1, L0809: 1, L0647: 1, L0664: 1, L0665: 1, S0216: 1, L0565: 1, H0689: 1, H0672: 1, S0378: 1, S0152: 1, H0522: 1, S0004: 1, S0032: 1, L0748: 1, L0740: 1, L0754: 1, L0752: 1, L0755: 1, L0757: 1, L0758: 1, L0608: 1, S0242: 1, H0423: 1, H0422: 1 and S0462: 1. 1, L0766: 8, L0751: 8, H0486: 4, L0754: 4, L0752: 4, L0755: 4, H0657: 3, H0547: 3, L0749: 3, H0328: 2, H0553: 2, H0646: 2, S0422: 2, L0771: 2, L0662: 2, L0776: 2, L0655: 2, L0789: 2, H0651: 2, H0521: 2, H0436: 2, L0740: 2, L0747: 2, L0756: 2, L0779: 2, L0731: 2, L0757: 2, H0624: 1, H0556: 1, T0002: 1, H0583: 1, S0354: 1, S0360: 1, H0580: 1, H0497: 1, H0333: 1, H0036: 1, S0049: 1, H0309: 1, H0024: 1, S0003: 1, H0423: 1, H0316: 1, H0040: 1, H0413: 1, H0560: 1, H0529: 1, L0569: 1, L0770: 1, L0646: 1, L0768: 1, L0804: 1, L0650: 1, L0806: 1, L0805: 1, L0527: 1, L0666: 1, L0665: 1, H0693: 1, H0519: 1, H0659: 1, H0658: 1, S0174:
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1047	HHGB63	824060	1057	25 - 405	3654	Tip-54 to Glu-95,	1, H0134; 1, L0753; 1, L0759; 1, H0543; 1 and L0599; 1, AR089; 32, AR316; 23, AR060; 14 L0665; 14, L0666; 11, L0794; 9, L0803; 7, L0657; 7, L0659; 7, L0663; 6, L0748; 6, L0740; 6, H0659; 5, L0809; 4, L0664; 4, L0747; 4, L0777; 4, L0471; 3, L0638; 3, L0637; 3, H0651; 3, S0378; 3, L0758; 3, L0362; 3, S0026; 3, H0685; 2, S0360; 2, T0006; 2, L0763; 2, L0761; 2, L0646; 2, L0648; 2, L0662; 2, L0363; 2, L0375; 2, L0805; 2, L0653; 2, L0517; 2, L0518; 2, L0783; 2, H0435; 2, H0672; 2, S0044; 2, L0439; 2, L0749; 2, L0756; 2, L0759; 2, L0608; 2, L0593; 2, L0361; 2, H0423; 2, H0352; 2, H0265; 1, S0040; 1, S0114; 1, S0134; 1, L0785; 1, S0418; 1, S0356; 1, S0354; 1, S0358; 1, S0376; 1, H0580; 1, S0045; 1, S0140; 1, L0717; 1, S0222; 1, H0333; 1, H0643; 1, H0427; 1, H0052; 1, H0263; 1, H0150; 1, S0388; 1, S0334; 1, H0615; 1, H0622; 1, H0169; 1, H0068; 1, H0038; 1, H0040; 1, H0616; 1, H0412; 1, H0059; 1, T0041; 1, L0065; 1, S0002; 1, H0020; 1, L0762; 1, L0640; 1, L0371; 1, L0639; 1, L0627; 1, L0641; 1, L0374; 1, L0764; 1, L0771; 1, L0767; 1, L0768; 1, L0766; 1, L0650; 1, L0775; 1, L0651; 1, L0776; 1, L0655; 1, L0527; 1, L0658; 1, L0656; 1, L0782; 1, L0545; 1,		
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1048	HHGBV02	604912	1058	220 - 420	3655	Ser-18 to His-24, Asn-50 to Ala-56, Arg-23 to Gly-29.	L0529: 1, L0791: 1, H0144: 1, S0374: 1, H0689: 1, H0670: 1, H0660: 1, H0648: 1, H0522: 1, H0436: 1, L0743: 1, L0751: 1, L0754: 1, L0750: 1, L0752: 1, L0731: 1, L0757: 1, L0596: 1, L0605: 1, L0599: 1, L0595: 1, H0665: 1 and H0136: 1.		
1049	HHGBW55	638183	1059	122 - 271	3656		H0333: 1, H0591: 1, L0766: 1, H0659: 1 and L0749: 1. AR060: 7, AR316: 7, AR089: 6 H0038: 6, L0794: 6, L0738: 5, H0616: 4, L0779: 3, L0789: 2, L0588: 2, H0333: 1, H0618: 1, H0253: 1, H0318: 1, H0581: 1, T0041: 1, L0769: 1, L0803: 1 and L0786: 1.		
1050	HHGBX88	638323	1060	234 - 440	3657	Gln-52 to Leu-57.	AR223: 32, AR224: 30, AR225: 29, AR222: 24, AR177: 22, AR173: 22, AR176: 20, AR171: 19, AR168: 19, AR175: 18, AR221: 18, AR181: 18, AR269: 18, AR189: 18, AR191: 18, AR183: 17, AR190: 17, AR174: 17, AR182: 16, AR172: 16, AR169: 14, AR211: 14, AR214: 14, AR290: 14, AR196: 13, AR165: 13, AR240: 13, AR178: 13, AR210: 13, AR164: 13, AR166: 12, AR296: 12, AR247: 12, AR287: 11, AR270: 11, AR199: 11, AR231: 11, AR234: 11, AR161: 11, AR162: 11, AR163: 11, AR282: 11, AR200: 11, AR288: 10,	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777

1051	HHGCA26	610265	1061	137 - 253	3658	Gly-33 to Lys-38.	<p>H0333: 1, H0623: 1 and H0648: 1.</p> <p>AR089: 45, AR316: 32, AR060: 19</p> <p>L0740: 15, L0752: 11, L0731: 11, H0652: 9, L0769: 9, L0748: 9, L0753: 8, L0746: 7, L0747: 7, L0775: 6, L0751: 6, L0757: 6, L0758: 6, H0599: 5, H0545: 5, L0471: 5, H0628: 5, L0809: 5, H0156: 4, S0003: 4, L0776: 4, L0777: 4, L0759: 4, L0599: 4, L0603: 4, S0276: 4, S0010: 3, H0123: 3, H0051: 1.</p>
1052	HHGDA81	782757	1062	676 - 735	3659		<p>5, L0744: 4, L0751: 4, L0752: 4, H0550: 3, H0546: 3, H0014: 3, L0771: 3, L0766: 3, L0774: 3, L0775: 3, S0358: 2, H0392: 2, T0048: 2, H0188: 2, L0483: 2, H0163: 2, L0646: 2, L0542: 2, L0666: 2, L0665: 2, S0380: 2, H0696: 2, S0406: 2, L0740: 2, L0596: 2, H0170: 1, H0717: 1, T0049: 1, S0212: 1, H0638: 1, S0360: 1, H0730: 1, S0046: 1, S0476: 1, S0222: 1, H0333: 1, T0060: 1, S0280: 1, H0156: 1, H0309: 1, H0597: 1, H0545: 1, H0041: 1, H0266: 1, S0364: 1, H0413: 1, H0494: 1, S0294: 1, H0652: 1, L0800: 1, L0645: 1, L0764: 1, L0765: 1, L0773: 1, L0768: 1, L0375: 1, L0376: 1, L0806: 1, L0656: 1, L0659: 1, L0547: 1, L0529: 1, L0792: 1, S0428: 1, H0144: 1, S0374: 1, H0593: 1, S0126: 1, S0027: 1, L0743: 1, L0749: 1, L0750: 1, L0755: 1, L0758: 1, L0759: 1, S0434: 1 and L0599: 1.</p>

1053	HHGD112	747680	1063	21 - 275	3660	Glu-40 to His-47.	1, H0445: 1, S0394: 1, L0608: 1, H0665: 1 and H0423: 1, H0333: 1, S0031: 1 and L0589: 1.		
1054	HHGDR05	610266	1064	73 - 183	3661		H0333: 1 and S0049: 1.	22q13.31	250 000, 250800.
1055	HHGDR92	840454	1065	113 - 175	3662		AR060: 14, AR316: 13, AR089: 10 L0777: 9, L0362: 6, H0265: 5, H0333: 5, H0539: 5, H0556: 4, H0124: 4, S0027: 4, L0439: 4, L0601: 4, H0599: 3, H0309: 3, H0056: 3, L0752: 3, L0593: 3, H0575: 2, H0590: 2, H0318: 2, H0012: 2, H0266: 2, H0644: 2, H0032: 2, H0135: 2, H0163: 2, H0551: 2, H0268: 2, T0042: 2, S0002: 2, L0770: 2, L0764: 2, L0766: 2, L0657: 2, L0783: 2, H0478: 2, L0742: 2, L0748: 2, L0754: 2, L0750: 2, L0758: 2, L0591: 2, L0581: 2, H0423: 2, H0422: 2, H0686: 1, S0040: 1, H0294: 1, H0657: 1, H0341: 1, S0282: 1, H0661: 1, H0638: 1, H0125: 1, S0418: 1, L0005: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0278: 1, H0441: 1, H0431: 1, H0370: 1, T0060: 1, H0013: 1, S0010: 1, S0346: 1, T0048: 1, S0474: 1, H0581: 1, H0085: 1, H0446: 1, L0157: 1, H0050: 1, H0620: 1, H0014: 1, H0051: 1, H0615: 1, H0428: 1, L0483: 1, H0166: 1, H0090: 1, H0040: 1, H0264: 1, H0059: 1, T0004: 1, H0100: 1, L0351: 1, L0564: 1, T0041: 1, H0560: 1, L0698: 1, L0763: 1, L0769: 1, L0638: 1, L0637: 1, L0374: 1, L0771: 1, L0662: 1, L0387: 1.		

1061	HHPDE38	877640	1071	290 - 370	3668			1, S0310: 1, H0520: 1, H0547: 1, H0519: 1, H0593: 1, H0682: 1, H0435: 1, H0658: 1, L0746: 1, L0731: 1, L0757: 1, L0758: 1, L0759: 1, and S0436: 1; L0766: 3, L0756: 2, H0051: 1, S0210: 1, H0529: 1, L0809: 1, H0539: 1, H0521: 1, L0779: 1, S0031: 1, and H0506: 1; L0754: 21, H0553: 10; H0574: 6, L0771: 5, L0598: 4, L0659: 4, L0663: 4, L0745: 4, L0731: 4, L0599: 4, S0376: 3, S0414: 3, H0328: 3, L0776: 3, L0439: 3, L0756: 3, H0624: 2, S0358: 2, S0444: 2, L0717: 2, H0596: 2, H0687: 2, H0615: 2, L0646: 2, L0662: 2, L0803: 2, L0774: 2, H0144: 2, L0438: 2, H0670: 2, S0330: 2, H0521: 2, H0478: 2, L0779: 2, L0777: 2, L0755: 2, S0260: 2, L0593: 2, S0452: 2, H0171: 1, S0402: 1, H0583: 1, H0650: 1, H0341: 1, S0282: 1, H0638: 1, S0442: 1, S0360: 1, S0132: 1, H0497: 1, H0632: 1, H0156: 1, H0575: 1, L0105: 1, H0052: 1, H0251: 1, H0545: 1, L0471: 1, H0012: 1, H0051: 1, H0510: 1, H0375: 1, H0267: 1, S0003: 1, S0214: 1, H0622: 1, H0124: 1, H0090: 1, H0591: 1, H0038: 1, H0616: 1, H0551: 1, TD067: 1, H0413: 1, L0065: 1, S0422: 1, S0002: 1, UNKNW: 1, L0649: 1, L0378: 1, L0655: 1, L4669: 1, L0517: 1, L0783: 1, L0666: 1, L0664: 1, L0665: 1, S0374: 1, H0520: 1, H0519: 1, S0126: 1, H0684:
1062	HHPDJ11	827289	1072	113 - 145	3669			13q12.2-q13.3 157900, 600631

1063	HHPDX86	731966	1073	350 - 445				1, H0658: 1, H0666: 1, H0696: 1, L0746: 1, L0750: 1, L0786: 1, L0591: 1, L0485: 1, S0026: 1, S0192: 1, S0242: 1, H0677: 1 and H0506: 1.	
1064	HHPEA17	562773	1074	278 - 397		Tyr-3 to Asn-8.		H0009: 1 and H0051: 1.	
1065	HHPEB61	658693	1075	56 - 184	3672			H0051: 1	
1066	HHPP26	753269	1076	24 - 266	3673	Trp-46 to Pro-52, Val-67 to Gly-72.		AR060: 3, AR316: 2, AR089: 2, S0010: 2, S0300: 1, T0003: 1, H0051: 1, T0010: 1, H0591: 1, L0438: 1, H0520: 1, L0439: 1, L0749: 1 and S0260: 1.	
1067	HHPPS11	570807	1077	125 - 238	3674			AR089: 7, AR316: 6, AR060: 4, L0439-4, L0750: 4, H0441: 3, H0486: 3, L0766: 3, L0752: 3, L0755: 3, H0624: 2, S0360: 2, H0327: 2, H0551: 2, L0771: 2, L0662: 2, L0794: 2, L0803: 2, L0804: 2, L0776: 2, L0791: 2, L0666: 2, S0406: 2, L0731: 2, L0758: 2, S0194: 2, H0170: 1, H0583: 1, H0411: 1, S0010: 1, L0163: 1, H0051: 1, H0083: 1, H0625: 1, S0422: 1, L0649: 1, L0381: 1, L0650: 1, L0659: 1, L0518: 1, L0790: 1, L0793: 1, H0144: 1, H0547: 1, H0519: 1, H0659: 1, H0539: 1, S0380: 1, S0013: 1, H0704: 1, L0748: 1, L0747: 1, L0779: 1, L0777: 1, L0591: 1, L0608: 1 and H0402: 1.	112262, 182600, 182870, 182870, 600225, 600225
1068	HHPPS15	847389	1078	139 - 231	3675	Gly-21 to Tyr-27, Trp-32 to Lys-37.		H0050: 1 and H0051: 1.	
1069	HHPPS15	847389	1078	139 - 231	3675			L0747: 21, L0758: 20, L0731: 10, L0748: 9, L0752: 9, S0440: 8, L0766: 7, L0740: 7	

1069	HHPFS18	829347	1079	127 - 243	3676	<p>1, H0445: 1, S0434: 1, S0394: 1, L0592: 1, S0011: 1, H0667: 1, S0276: 1 and H0543: 1, AR215: 4, AR282: 4, AR169: 3, AR235: 2, AR222: 2, AR168: 2, AR176: 2, AR171: 2, AR216: 2, AR165: 1, AR199: 1, AR178: 1, AR205: 1, AR201: 1, AR264: 1, AR096: 1, AR287: 1, AR195: 1, AR311: 1, L0794: 8, H0543: 7, H0555: 6, H0423: 6, H0641: 5, H0422: 5, H0581: 4, H0090: 4, L0747: 4, L0777: 4, H0657: 3, S0442: 3, H0486: 3, H0622: 3, H0135: 3, L0665: 3, L0748: 3, L0756: 3, L0731: 3, L0759: 3, S0134: 2, H0255: 2, S0354: 2, S0360: 2, H0586: 2, H0575: 2, H0560: 2, L0764: 2, L0664: 2, S0082: 2, H0670: 2, H0672: 2, H0521: 2, S0406: 2, H0552: 2, L0459: 2, L0740: 2, S0434: 2, L0599: 2, H0506: 2, H0624: 1, H0171: 1, H0395: 1, T0002: 1, H0222: 1, S0342: 1, H0650: 1, S0298: 1, H0662: 1, H0638: 1, S0410: 1, S0046: 1, H0370: 1, H0497: 1, S0280: 1, L0021: 1, H0706: 1, H0036: 1, H0253: 1, H0705: 1, H0318: 1, H0150: 1, H0024: 1, H0051: 1, S0051: 1, H0071: 1, H0179: 1, H0271: 1, H0687: 1, H0039: 1, H0617: 1, H0040: 1, H0412: 1, H0059: 1, H0022: 1, H0494: 1, H0625: 1, H0647: 1, H0646: 1, L0763: 1, L0761: 1,</p>		
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1070	HHPGH34	535780	1080	219 - 236	3677			1, L0771: 1, L0521: 1, L0662: 1, L0803: 1, L0804: 1, L0774: 1, L0776: 1, L0547: 1, S0216: 1, H0701: 1, S0374: 1, H0690: 1, H0684: 1, H0435: 1, H0660: 1, H0651: 1, H0518: 1, S0013: 1, H0436: 1, S0104: 1, L0751: 1, L0749: 1, L0779: 1, L0752: 1, H0444: 1, H0445: 1, S0194: 1 and S0196: 1.	
1071	HHPCU74	821486	1081	77 - 310	3678	Thr-34 to Gln-40, Asp-69 to Gly-76.		H0051: 1	
1072	HHPCU87	658604	1082	242 - 328	3679	Met-1 to Arg-9.		L0747: 6, L0766: 5, L0439: 5, S0410: 4, L0749: 4, L0758: 4, S0408: 3, L0662: 3, L0803: 3, L0750: 3, L0756: 3, L0777: 3, S0116: 2, S0444: 2, L0598: 2, L0763: 2, L0521: 2, L0804: 2, L0774: 2, L0775: 2, L0659: 2, S0374: 2, H0670: 2, L0743: 2, L0731: 2, S0212: 1, S0418: 1, S0354: 1, H0580: 1, S0476: 1, S6014: 1, H0441: 1, T0039: 1, H0381: 1, H0309: 1, H0051: 1, S0388: 1, S0051: 1, T0010: 1, H0375: 1, S0003: 1, L0483: 1, H0031: 1, L0142: 1, H0040: 1, H0412: 1, H0529: 1, L0761: 1, L0373: 1, L0372: 1, L0773: 1, L0375: 1, L0657: 1, L0809: 1, L0666: 1, L0438: 1, H0658: 1, H0521: 1, S0028: 1, L0744: 1, L0755: 1, L0608: 1, L0366: 1 and S0196: 1.	15
1073	HHPSD42	600317	1083	79 - 183	3680			AR069: 5, AR316: 3, AR089: 2	
1074	HHPSE03	580839	1084	86 - 286	3681			H0201: 2 and S0428: 1, H0201: 1	

1075	HHPSF55	735562	1085	122 - 223	3682		S0360: 3, L0779; 3, H0341: 2, H0619; 2, S0010; 2, H0052; 2, L0771; 2, L0754; 2, H0170; 1, S0040; 1, L0005; 1, S0358; 1, S0346; 1, H0545; 1, H0201; 1, S0364; 1, T0042; 1, L0640; 1, L0770; 1, L0796; 1, L0772; 1, L0645; 1, L0662; 1, L0774; 1, L0776; 1, L0659; 1, L0783; 1, L0528; 1, L0530; 1, L0664; 1, H0693; 1, L0748; 1, L0752; 1, L0758; 1, S0026; 1 and H0136: 1.		
1076	HHPSF70	709665	1086	465 - 569	3683		AR060: 20, AR316: 14, AR089: 8 L0745; 7, L0756; 7, L0598; 6, S0346; 4, S0036; 4, L0777; 4, L0731; 4, S0010; 3, S0051; 3, L0770; 3, L0803; 3, L0438; 3, L0758; 3, S0031; 3, H0170; 2, H0438; 2, T0010; 2, H0687; 2, H0038; 2, H0616; 2, L0351; 2, L0769; 2, L0794; 2, L0806; 2, L0790; 2, H0660; 2, L0439; 2, L0751; 2, L0754; 2, L0366; 2, S0300; 1, H0351; 1, T0048; 1, S0049; 1, H0052; 1, H0194; 1, H0009; 1, H0565; 1, H0051; 1, H0201; 1, S0388; 1, H0083; 1, H0510; 1, H0428; 1, S0039; 1, H0561; 1, L0369; 1, L0520; 1, L0371; 1, L0638; 1, L0637; 1, L0662; 1, L0774; 1, L0635; 1, L0809; 1, L0666; 1, L0663; 1, H0659; 1, H0648; 1, H0651; 1, S0330; 1, L0748; 1, L0740; 1, L0780; 1, L0752; 1, L0753; 1, L0759; 1, S0260; 1 and L0589: 1.		
1077	HHPSF74	638185	1087	167 - 256	3684		L0777: 6, H0090: 4, L0770: 1	Xp1123	300047, 300071,

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1078	HHPSL14	847390	1088	65 - 184	3685	AR060: 7, AR316: 5, AR089: 3 H0046: 26, S0434: 17, L0740: 15, L0752: 15, S0126: 14, S0360: 12, H0521: 11, S0406: 9, L0751: 9, S0344: 8, L0766: 8, L0754: 8, L0777: 8, S0358: 7, H0545: 7, H0039: 7, L0659: 7, L0747: 7, L0755: 7, L0758: 7, H0542: 7, H0255: 6, H0052: 6, H0014: 6, H0616: 6, L0776: 6, L0748: 6, L0757: 6, H0717: 5, H0156: 5, H0599: 5, H0024: 5, S0144: 5, L0769: 5, L0775: 5, L0809: 5, L0666: 5, L0665: 5, H0539: 5, L0439: 5, L0749: 5, L0731: 5, L0759: 5,									

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1079	HHPM40	82904	1089	23 - 115	3686			H0444: 1, H0445: 1, L0588: 1, L0593: 1, S0011: 1, H0668: 1, S0026: 1, H0667: 1, S0194: 1, S0276: 1, S0196: 1, H0423: 1, S0042: 1, H0506: 1 and H0712: 1.	
1080	HHPTE26	857654	1090	248 - 364	3687			H0201: 1 H0124: 1, H0100: 1 and S0112: 1.	
1081	HHSAD31	609874	1091	333 - 353	3688			H0538: 2, S0114: 1, S0051: 1, H0166: 1 and H0521: 1, S0051: 1	
1082	HHSAE74	839473	1092	151 - 219	3689			L0752: 5, L0157: 4, L0659: 4, L0666: 4, H0333: 3, H0253: 3, H0050: 3, L0766: 3, L0805: 3, L0809: 3, L0747: 3, L0755: 3, H0255: 2, S0354: 2, H0486: 2, H0615: 2, H0181: 2, L0769: 2, S0380: 2, L0743: 2, L0748: 2, L0777: 2, L0581: 2, H0624: 1, S0114: 1, H0669: 1, H0662: 1, S0468: 1, H0619: 1, H0645: 1, H0550: 1, S0222: 1, S0005: 1, H0574: 1, H0618: 1, H0196: 1, H0457: 1, H0081: 1, S0051: 1, H0594: 1, H0188: 1, T0023: 1, H0553: 1, H0644: 1, H0264: 1, H0494: 1, S0422: 1, S0002: 1, L0639: 1, L0637: 1, L0646: 1, L0764: 1, L0662: 1, L0649: 1, L0803: 1, L0653: 1, L0776: 1, L0655: 1, L0607: 1, L0789: 1, L0664: 1, H0690: 1, H0539: 1, H0321: 1, H0522: 1, L0749: 1, L0756: 1, L0779: 1, L0758: 1, S0194: 1 and H0543: 1.	
1083	HHSAG62	847392	1093	78 - 164	3690			Pro-1 to Val-7, Cys-20 to Pro-27.	
1084	HHSAA17	566827	1094	161 - 211	3691			Gly-2 to Ser-10, AR089: 19, AK316: 16, AR060: 13 S0051: 1	

1085	HHSBN92	838604	1095	310 - 534	3692	Pro-49 to Pro-54.	L0805: 6, H0181: 3, L0803: 3, S0360: 2, L0651: 2, H0521: 2, H0556: 1, S0418: 1, H0550: 1, S0222: 1, H0611: 1, H0318: 1, S0474: 1, H0046: 1, L0157: 1, H0564: 1, H0012: 1, S0051: 1, H0179: 1, H0604: 1, H0553: 1, H0182: 1, H0617: 1, S0036: 1, H0090: 1, H0494: 1, L0763: 1, L0770: 1, L0646: 1, L0800: 1, L0804: 1, L0774: 1, L0806: 1, L0776: 1, L0657: 1, L0659: 1, L0788: 1, L0664: 1, H0593: 1, H0670: 1, H0539: 1, L0741: 1, L0439: 1, L0747: 1, L0777: 1, L0780: 1, S0031: 1 and L0592: 1.	11	121050, 131400, 138040, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 601692, 601692, 602089, 602121, 602460
1086	HHSBN84	783070	1096	432 - 515	3693	AR089: 29, AR316: 24, AR060: 19 L0748: 13, L0754: 9, L0759: 7, L0439: 6, L0742: 5, L0749: 5, H0586: 4, L0747: 4, L0731: 4, H0556: 3, H0455: 3, H0038: 3, L0803: 3, L0805: 3, L0777: 3, S0418: 2, H0619: 2, S0222: 2, H0333: 2, H0156: 2, H0620: 2, H0266: 2, H0428: 2, L0769: 2, L0641: 2, L0775: 2, L0657: 2, L0532: 2, L0597: 2, H0170: 1, H0717: 1, L0415: 1, S0001: 1, S0300: 1, H0351: 1, H0331: 1, H0486: 1, H0013: 1, S0010: 1, S0346: 1, H0581: 1, S0049: 1, L0040: 1, H0046: 1, H0024: 1, S0050: 1, H0051: 1, S0051: 1, H0399: 1, S6028: 1, S0003: 1, S0214: 1, H0252: 1, H0328: 1, H0031: 1, H0553: 1, H0644: 1, S0036: 1, H0135: 1, H0488: 1, H0059: 1, T0042: 1, S0440: 1	5q31		

1087	HHSCI 24	815660	1097	275 - 352	3694				1, L0770: 1, L0800: 1, L0764: 1, L0771: 1, L0662: 1, L0551: 1, L0804: 1, L0806: 1, L0776: 1, L0659: 1, L0635: 1, L0783: 1, L0809: 1, L0530: 1, L0543: 1, L0787: 1, L0789: 1, L0793: 1, L0663: 1, L0665: 1, S0126: 1, H0690: 1, H0435: 1, H0658: 1, H0660: 1, S0037: 1, S014: 1, L0741: 1, L0756: 1, L0757: 1, H0444: 1, L0596: 1, L0608: 1, L0603: 1, L0366: 1, S0194: 1 and S0021: 1.		
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1088	HHSCQ67	581061	1098	112 - 234	3695			L0763: 1, L0631: 1, L0646: 1, L0641: 1, L0643: 1, L0644: 1, L0764: 1, L0773: 1, L0364: 1, L0649: 1, L0653: 1, L0655: 1, L0658: 1, L0558: 1, L0518: 1, L0789: 1, L0663: 1, S0374: 1, L0438: 1, L0352: 1, H0711: 1, H0648: 1, H0672: 1, S0330: 1, H0539: 1, S0378: 1, H0321: 1, S0146: 1, H0555: 1, H0436: 1, H0626: 1, S0037: 1, S0027: 1, S0028: 1, L0742: 1, L0759: 1, H0343: 1, S0434: 1, L0587: 1, L0592: 1, H0668: 1, H0216: 1, S0196: 1, H0543: 1, H0423: 1 and S0462: 1.	
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1089	HHSCU12	608277	1099	175 - 282	3696	Glu-31 to Lys-36.		S0051: 2, L0769: 2, L0764: 2, S0052: 2, H0618: 1, H0263: 1, H0538: 1, L0805: 1, L0787: 1, L0792: 1, L0666: 1 and H0543: 1.	
1090	HHSDB43	812510	1100	46 - 1347	3697	Asp-13 to His-23, Pro-33 to Ala-58, Lys-124 to Gln-131, Gln-148 to Asn-154, Tyr-160 to Ala-165.		L0438: 6, L0777: 6, L0804: 5, L0749: 5, S0003: 4, L0803: 4, L0805: 4, L0439: 4, L0752: 4, H0052: 3, L0794: 3, L0766: 3, H0547: 3, H0539: 3, L0747: 3.	

1091	HHSDL07	899430	1101	22 - 138	3698	Ala-23 to Gly-38.	Gly-182 to Gln-190, Thr-205 to Cys-224, Lys-248 to Phe-254, Phe-259 to Thr-267, His-272 to Arg-279.	3, L0731: 3, L0759: 3, H0556: 2, S0474: 2, H0494: 2, L0770: 2, L0667: 2, L0774: 2, L0793: 2, L0750: 2, L0755: 2, S0040: 1, H0657: 1, S0356: 1, S0360: 1, S0408: 1, S0045: 1, H0411: 1, S0280: 1, L0021: 1, H0599: 1, S0049: 1, H0083: 1, H0545: 1, S0051: 1, H0266: 1, H0031: 1, H0553: 1, H0032: 1, H0165: 1, L0456: 1, H0090: 1, H0040: 1, H0616: 1, H0551: 1, H0413: 1, T0041: 1, L0369: 1, L0638: 1, L0372: 1, L0662: 1, L0653: 1, L0776: 1, L0606: 1, L0809: 1, L0790: 1, L0664: 1, H0320: 1, S0126: 1, H0690: 1, H0660: 1, S0380: 1, H0522: 1, H0436: 1, H0626: 1, S0027: 1, L0596: 1, L0588: 1, L0581: 1, L0601: 1, S0424: 1 and S0458: 1.	16		
1092	HHSDX07	847393	1102	40 - 159	3699	Thr-26 to Gln-31.	•	L0439: 13, L0777: 9, L0717: 8, L0748: 6, L0659: 5, L0747: 4, H0318: 3, L0665: 3, L0779: 3, H0170: 2, H0212: 2, L0455: 2, L0764: 2, L0662: 2, L0768: 2, L0766: 2, L0775: 2, L0655: 2, H0520: 2, H0672: 2, L0746: 2, L0755: 2, L0758: 2, L0759: 2, L0595: 2, H0624: 1, H0171: 1, H0685: 1, H0661: 1, H0402: 1, S0046: 1, H0333: 1, T0109: 1, H0013: 1, S0280: 1, L0021: 1, H0590: 1, H0581: 1, H0374: 1, H0596: 1, L0471: 1, H0014: 1, S0051: 1, S0003: 1, H0328: 1, H0617: 1, H0040: 1, H0412:	1		

1093	HHSTF54	836149	1103	591 - 677	3700			1, H0494: 1, H0641: 1, L0761: 1, L0645: 1, L0773: 1, L0521: 1, L0375: 1, L0651: 1, L0805: 1, L0776: 1, L0526: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, H0701: 1, L0352: 1, H0547: 1, H0658: 1, H0670: 1, H0648: 1, H0651: 1, H0436: 1, L0740: 1, L0754: 1, L0752: 1, L0757: 1, L0591: 1, L0592: 1 and H0293: 1.	3	
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1094	HHSCB85	783832	1104	145 - 240	3701	Gly-18 to Cys-24.	1, S0440: 1, S0210: 1, S0002: 1, L0598: 1, L0638: 1, L0667: 1, L0772: 1, L0646: 1, L0643: 1, L0773: 1, L0626: 1, L0803: 1, L0806: 1, L0559: 1, L0789: 1, L0663: 1, S0374: 1, S0126: 1, S0122: 1, H0670: 1, S0380: 1, S0027: 1, S0206: 1, L0750: 1, L0756: 1, L0779: 1, H0343: 1, L0608: 1, S0026: 1, H0653: 1 and H0423: 1. L0439: 7, L0769: 5, L0659: 5, S0222: 4, H0051: 4, S0388: 4, S0051: 4, L0438: 4, H0327: 3, S0036: 3, L0775: 3, L0665: 3, L0741: 3, S0434: 3, S0282: 2, S0049: 2, L0175: 2, H0519: 2, H0690: 2, L0756: 2, S6024: 2, S0035: 1, H0208: 1, S0300: 1, H0549: 1, T0114: 1, H0052: 1, H0123: 1, L0471: 1, H0320: 1, H0014: 1, H0594: 1, H0428: 1, T0023: 1, H0598: 1, H0551: 1, S0112: 1, H0652: 1, L0520: 1, L0770: 1, L0639: 1, L0646: 1, L0662: 1, L0803: 1, L0804: 1, L0657: 1, H0547: 1, H0435: 1, H0672: 1, S0152: 1, S0404: 1, L0751: 1, L0747: 1, L0749: 1, L0786: 1, L0779: 1, L0758: 1 and S0031: 1. H0052: 3, S0412: 3, L0756: 2, L0005: 1, H0455: 1, H0051: 1, S0388: 1, L0521: 1, L0439: 1, L0755: 1 and S0260: 1. S0222: 1, S6014: 1, H0445: 1 and S0194: 1. L0748: 9, L0749: 8, L0758: 3, L0776: 2, L0754: 2, L0777: 2, H0402: 1, S0354: 1, S0358: 2	106100, 133780, 147080, 239700, 239770, 600045, 601650, 601884
1095	HHSG184	801913	1105	847 - 900	3702			
1096	HHTLH79	754847	1106	55 - 207	3703			
1097	HLABC70	838605	1107	130 - 327	3704	Ala-36 to Ser-49, Ala-60 to Arg-65.		

1098	HIATG10	857608	1108	140 - 244	3705				1, S0360: 1, H0574: 1, H0575: 1, H0581: 1, H0597: 1, H0457: 1, H0071: 1, L0483: 1, H0068: 1, H0163: 1, H0641: 1, H0647: 1, S0002: 1, S0426: 1, L0773: 1, L0766: 1, L0649: 1, L0803: 1, L0375: 1, L0527: 1, L0790: 1, L0663: 1, L0665: 1, H0648: 1, H0651: 1, H0521: 1, L0743: 1 and L0744: 1.	7
1099	HIBCO70	853360	1109	124 - 255	3706	Arg-24 to Ser-36, Pro-38 to Gln-43.			AR266: 3, AR244: 3, AR271: 3, AR310: 3, AR282: 2, AR183: 2, AR206: 2, AR104: 2, AR269: 2, AR313: 2, AR277: 1, AR295: 1, AR273: 1, AR227: 1, AR175: 1 L0471: 2, H0622: 2, H0264: 2, L0803: 2, H0542: 2, H0411: 1, H0052: 1, T0010: 1, L0641: 1, L0643: 1, L0374: 1, L0662: 1, L0794: 1, L0766: 1, L0804: 1, L0523: 1, L0805: 1, L0655: 1, L0606: 1, L0791: 1, H0547: 1, H0519: 1 and H0689: 1.	
1100	HIBCR82	610016	1110	104 - 271	3707	Met-1 to Ile-7, Thr-41 to Ser-46, Asn-50 to Thr-55.			1, H0439: 3, H0051: 2, L0766: 2, L0753: 2, H0170: 1, S0007: 1, L0021: 1, S0050: 1, T0010: 1, L0809: 1, L0747: 1 and L0756: 1.	
1101	HIBDA41	603909	1111	47 - 121	3708				H0046: 55, L0748: 18, L0438: 8, L0731: 8, H0521: 7, H0305: 6, H0575: 6, H0620: 6, H0641: 6, L0595: 6, L0601: 6, H0556: 5, S0045: 5, H0550: 5, L0769: 5, L0751: 5, L0750: 5, L0593: 5, H0624: 4, H0012: 4, H0547: 4, H0650: 3, H0657: 3.	

1102	HIBEC45	822854	1112	779-940	3709	Met-29 to Phe-40.	L0382: 1, L0666: 1, S0428: 1, H0689: 1, S0328: 1, S0330: 1, H0539: 1, H0555: 1, S0028: 1, S0206: 1, L0741: 1, L0756: 1, L0752: 1, L0753: 1, H0444: 1, H0423: 1, H0422: 1 and S0446: 1. L0740: 12, L0747: 12, L0749: 12, L0741: 8, L0439: 8, L0748: 7, H0556: 6, L0769: 6, L0438: 6, L0744: 6, L0757: 6, L0596: 6, L0591: 6, S0010: 5, T0010: 5, H0266: 5, L0637: 5, L0776: 5, H0351: 4, H0052: 4, L0770: 4, L0659: 4, H0144: 4, L0750: 4, H0443: 4, H0009: 3, H0688: 3, L0766: 3, L0774: 3, L0375: 3, L0651: 3, L0663: 3, H0520: 3, H0521: 3, L0751: 3, L0756: 3, L0731: 3, L0758: 3, L0366: 3, H0170: 2, S0040: 2, H0650: 2, H0657: 2, S0212: 2, H0662: 2, S0420: 2, S0408: 2, S0045: 2, H0600: 2, H0559: 2, H0150: 2, H0178: 2, H0123: 2, H0620: 2, H0124: 2, H0135: 2, L0638: 2, L5575: 2, L0662: 2, L0806: 2, L0542: 2, H0672: 2, H0539: 2, H0696: 2, S0146: 2, S3014: 2, L0742: 2, L0754: 2, L0581: 2, L0608: 2, L0594: 2, H0222: 1, S0218: 1, H0656: 1, L0785: 1, S0116: 1, H0255: 1, H0661: 1, S0418: 1, S0442: 1, S0358: 1, S0444: 1, H0619: 1, S0300: 1, S0278: 1, H0550: 1, S0222: 1, H0392: 1, H0455: 1, H0409: 1, H0586: 1, H0587: 1, H0497: 1, H0333: 1, H0643: 1, H0632: 1, H0490: 1, H0486:
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1103	HILBW03	841377	1113	331 - 438	3710	1, H0013: 1, T0082: 1, H0004: 1, H0274: 1, H0253: 1, H0390: 1, S0665: 1, S0346: 1, H0318: 1, H0581: 1, H0421: 1, S0049: 1, H0041: 1, H0081: 1, H0012: 1, S0050: 1, H0015: 1, S0028: 1, H0188: 1, H0288: 1, T0006: 1, H0033: 1, H0604: 1, H0030: 1, L0455: 1, S0366: 1, H0616: 1, T0067: 1, H0412: 1, H0413: 1, H0059: 1, H0102: 1, S0112: 1, T0041: 1, H0560: 1, H0509: 1, H0647: 1, S0210: 1, L0763: 1, L0667: 1, L0373: 1, L0646: 1, L0374: 1, L0764: 1, L0767: 1, L0768: 1, L5568: 1, L0650: 1, L0775: 1, L0378: 1, L0653: 1, L0634: 1, L0540: 1, L0783: 1, L0809: 1, L0544: 1, L0666: 1, L0664: 1, L0663: 1, L0565: 1, H0547: 1, S0126: 1, H0690: 1, H0682: 1, H0660: 1, H0518: 1, S0404: 1, H0436: 1, S0037: 1, S0028: 1, L0752: 1, L0755: 1, L0759: 1, S0106: 1, S0026: 1, H0653: 1, H0136: 1, H0543: 1, S0424: 1, H0008: 1 and H0352: 1.
1104	HISAE16	845233	1114	73 - 108	3711	H0052: 5, S0358: 3, L0653: 2, T0002: 1, S0218: 1, S0116: 1, S0376: 1, H0580: 1, H0575: 1, S0010: 1, H0024: 1, S0003: 1, H0031: 1, H0623: 1, S0002: 1, L0768: 1, L0794: 1, L0805: 1, L0776: 1, L0809: 1, L0789: 1, H0547: 1, H0660: 1, L0786: 1, L0753: 1 and H0506: 1.
						AR089: 14, AR316: 11, AR060: 8 H0539: 2

1105	HISAG53	843902	1115	944 - 1030	3712			20q13.3	118504, 118504, 131242, 602235
1106	HISAG63	797658	1116	597 - 713	3713				
1107	HISAT78	840961	1117	967 - 1167	3714	Pro-31 to Pro-37.		20p13-p12.2	192340, 234200

1108	HISBA38	561711	1118	169 - 279	3715			1, L0065: 1, S0144: 1, L0770: 1, L0645: 1, L0771: 1, L0521: 1, L0662: 1, L0794: 1, L0807: 1, L0783: 1, L0809: 1, L0367: 1, L0788: 1, L0666: 1, H0144: 1, H0648: 1, H0539: 1, S0152: 1, H0522: 1, S0044: 1, S0146: 1, S0037: 1, L0756: 1, L0786: 1, L0780: 1, H0665: 1, H0542: 1, H0423: 1, H0422: 1, S0424: 1, H0506: 1 and H0293: 1, H0539: 1.	
1109	HISBB66	839808	1119	1536 - 1613	3716			AR089: 5, AR316: 3, AR060: 1, L0794: 7, L0766: 6, L0748: 6, L0770: 5, L0747: 4, L0805: 3, L0740: 2, H0657: 1, S0418: 1, S0222: 1, H0004: 1, S0022: 1, H0673: 1, H0616: 1, S0422: 1, L0769: 1, L0761: 1, L0768: 1, L0803: 1, L0775: 1, L0655: 1, L0657: 1, L0659: 1, L0636: 1, L0809: 1, H0144: 1, H0539: 1, S0044: 1, S0406: 1, H0436: 1, H0478: 1, H0631: 1, S3012: 1, L0751: 1, L0754: 1, L0749: 1, L0779: 1, L0777: 1, L0780: 1, L0752: 1, H0445: 1 and S0026: 1.	7q22-qter
1110	HISCI20	531876	1120	257 - 370	3717			AR184: 6, AR251: 5, AR263: 5, AR183: 4, AR246: 4, AR182: 3, AR267: 3, AR299: 2, AR089: 2, AR282: 2, AR312: 2, AR186: 2, AR309: 2, AR289: 2, AR248: 2, AR286: 2, AR296: 2, AR243: 2, AR053: 2, AR310: 2.	

1113	HISE152	886777	1123	480 - 1697	3720	Ile-13 to Glu-33, Gln-47 to Lys-57, Gly-75 to Leu-81, Leu-151 to His-157, Lys-187 to Ser-192.	1. H0660: 1, H0521: 1, S0028: 1, L0746: 1, L0747: 1, L0780: 1, L0731: 1, L0758: 1, H0445: 1 and L0597: 1. AR229: 6, AR161: 5, AR162: 5, AR163: 5, AR313: 5, AR171: 5, AR223: 4, AR225: 4, AR215: 4, AR247: 4, AR096: 4, AR216: 4, AR309: 4, AR196: 4, AR183: 4, AR165: 4, AR164: 4, AR166: 4, AR228: 4, AR178: 4, AR297: 3, AR173: 3, AR275: 3, AR290: 3, AR269: 3, AR282: 3, AR300: 3, AR169: 3, AR296: 3, AR268: 3, AR175: 3, AR238: 3, AR287: 3, AR293: 3, AR200: 3, AR257: 3, AR291: 3, AR168: 3, AR172: 3, AR219: 3, AR214: 3, AR255: 3, AR240: 3, AR267: 3, AR285: 3, AR182: 2, AR277: 2, AR234: 2, AR174: 2, AR295: 2, AR264: 2, AR179: 2, AR270: 2, AR289: 2, AR203: 2, AR262: 2, AR181: 2, AR189: 2, AR237: 2, AR222: 2, AR246: 2, AR188: 2, AR299: 2, AR294: 2, AR089: 2, AR217: 2, AR233: 2, AR258: 2, AR185: 2, AR286: 2, AR236: 2, AR193: 2.
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1118	HJABT12	602861	1128	30 - 143	3725	Arg-22 to Tyr-28.	L0519: 3, L0731: 2, S0010: 1, T0041: 1, L0773: 1, L0766: 1, L0809: 1, H0682: 1 and S0404: 1.		
1119	HJACE25	835517	1129	322 - 402	3726		AR235: 69, AR196: 67, AR297: 65, AR288: 64, AR230: 63, AR283: 62, AR296: 61, AR295: 59, AR238: 59, AR197: 59, AR104: 56, AR287: 56, AR286: 56, AR199: 56, AR293: 54, AR233: 54, AR289: 53, AR227: 53, AR261: 52, AR260: 52, AR185: 51, AR291: 51, AR195: 51, AR238: 50, AR237: 50, AR061: 50, AR243: 49, AR254: 49, AR229: 49, AR294: 49, AR252: 48, AR234: 48, AR311: 47, AR253: 47, AR266: 47, AR246: 46, AR256: 45, AR188: 45.		

1120	HJACK21	664506	1130	139 - 246	3727			AR277: 19, AR270: 19, AR183: 14, AR216: 13, AR221: 12, AR214: 11, AR224: 11, AR215: 11, AR217: 11, AR223: 10, AR222: 8 S0360: 3, H0375: 1, H0090: 1, H0412: 1, T0041: 1, L0770: 1, L0648: 1, L0662: 1, L0794: 1, L0803: 1, L0665: 1, H0547: 1, H0682: 1, H0659: 1, S0004: 1, L0748: 1, L0755: 1, H0445: 1 and H0543: 1, L0748: 4, H0673: 3, L0803: 2, L0749: 2, L0756: 2, L0759: 2, S0358: 1, H0608: 1, H0643: 1, H0156: 1, T0082: 1, H0581: 1, H0597: 1, H0428: 1, H0598: 1, H0135: 1, H0063: 1, H0059: 1, T0041: 1, S0142: 1, S0002: 1, L0763: 1, L0646: 1, L0764: 1, L0774: 1, L0378: 1, L0792: 1, H0539: 1, L0779: 1, L0755: 1, S0031: 1, L0485: 1, L0599: 1, S0192: 1, S0276: 1 and H0543: 1, AR089: 24, AR316: 21, AR060: 18 L0803: 5, H0553: 4, L0438: 3, L0439: 3, H0013: 2, L0771: 2, H0521: 2, L0601: 2, S0282: 1, S0046: 1, L0717: 1, T0040: 1, H0575: 1, H0046: 1, H0615: 1, H0616: 1, T0042: 1, H0494: 1, S0438: 1, S0422: 1, L0598: 1, H0529: 1, L0800: 1, L0662: 1, L0381: 1, L0776: 1, L0659: 1, L0789: 1, H0144: 1, H0648: 1, H0539: 1, S0152: 1, L0740: 1, L0754: 1, L0752: 1, L0757:	1		
1121	HJBCG74	839361	1131	33 - 707	3728	Glu-34 to Val-39, Phe-47 to Asp-55, Glu-65 to Leu-73, His-89 to Thr-95, Arg-112 to Ala-119, Lys-149 to Arg-155, Ser-170 to Gly-178, Pro-193 to Ser-200, Arg-207 to Gln-212.		10q23	174900, 236730, 601493		

1122	HIBC021	695727	1132	289 - 324	3729	1 and H0423: 1; AR089: 26, AR316: 23, AR060: 20 1, L0769: 5, L0776: 5, L0596: 4, H0657: 3, H0341: 3, S0372: 3, S0126: 3, H0648: 3, L0748: 3, H0445: 3, S0360: 2, T0039: 2, T0042: 2, L0762: 2, L0628: 2, L0809: 2, S0374: 2, H0593: 2, H0672: 2, S0380: 2, S0134: 1, H0656: 1, H0483: 1, H0661: 1, H0664: 1, S0358: 1, S0376: 1, H0637: 1, S0046: 1, S0278: 1, S0222: 1, L0623: 1, H0486: 1, T0109: 1, T0048: 1, S0182: 1, H0327: 1, H0546: 1, H0086: 1, H0123: 1, L0182: 1, S0214: 1, H0622: 1, H0617: 1, H0674: 1, H0494: 1, L0475: 1, S0016: 1, S0382: 1, S0150: 1, H0633: 1, S0142: 1, S0210: 1, L0770: 1, L0761: 1, L0374: 1, L0764: 1, L0521: 1, L0767: 1, L0387: 1, L0381: 1, L0499: 1, L0774: 1, L0806: 1, L0655: 1, L0379: 1, L0783: 1, L0384: 1, S0122: 1, H0689: 1, H0659: 1, H0670: 1, H0660: 1, S0328: 1, S0136: 1, H0576: 1, S3012: 1, L0749: 1, L0780: 1, L0755: 1, L0757: 1, S0026: 1, S0196: 1, H0543: 1 and H0422: 1; T0042: 1	Xp11.23-pl1.22	300008, 300008, 300008, 300008, 300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060
1123	HIBQ40	831119	1133	161 - 316	3730		2q31	100690, 120180, 120180, 120180, 120180, 120190, 142989, 156232, 178600, 266100, 600258, 600321
1124	HIBDM36	773168	1134	1954 - 2076	3731		6	

1125	HUMAF30	638188	1135	193 - 297	3732	Pro-19 to Lys-25.	1, L0382: 1, L5623: 1, L0788: 1, L0792: 1, L0663: 1, L0664: 1, H0144: 1, S0374: 1, H0547: 1, H0435: 1, H0670: 1, H0522: 1, S0406: 1, H0555: 1, S3012: 1, L0754: 1, L0745: 1, L0780: 1, L0755: 1, H0445: 1, L0485: 1, L0593: 1, L0601: 1, L0366: 1, H0667: 1, S0242: 1, S0194: 1, H0542: 1 and H0543: 1. S0114: 1, S0356: 1, H0318: 1, H0545: 1, L0041: 1, H0510: 1, H0622: 1, H0124: 1, H0269: 1, H0412: 1, L0766: 1, L0775: 1, H0539: 1, L0731: 1 and L0758: 1.	12	
1126	HUMAM72	638189	1136	300 - 377	3733		L0779: 5, L0438: 4, H0624: 3, L0034: 3, L0803: 3, S0358: 2, S0376: 2, H0641: 2, L0666: 2, L0749: 2, L0756: 2, L0757: 2, L0758: 2, S0001: 1, H0411: 1, H0427: 1, L0109: 1, H0545: 1, H0622: 1, H0031: 1, H0090: 1, H0038: 1, H0040: 1, H0616: 1, L0371: 1, L0662: 1, L0766: 1, L0376: 1, L0659: 1, S0428: 1, H0144: 1, H0658: 1, S0328: 1, L0748: 1, L0439: 1, L0777: 1, L0753: 1, L0755: 1, L0485: 1 and H0665: 1.		
1127	HUMAZ60	844796	1137	1441 - 1578	3734	Pro-27 to Lys-34.	AR089: 14, AR316: 9, AR060: 3 L0754: 12, S0360: 8, S0358: 6, H0046: 6, S0152: 6, H0100: 5, L0751: 5, L0777: 5, L0601: 5, H0052: 4, L0740: 4, S0444: 3, S0408: 3, H0051: 3, H0266: 3, L0526: 3, S0374: 3, L0779: 3, H0265: 2, H0556: 2, H0341: 2, H0661: 2, H0619: 2, H0050:		

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[illegible]

1129	HIMBB20	842673	1139	2308 - 2418	3736	<p>1, L0766: 14, H0423: 9, L0659: 8, H0170: 6, H0657: 6, H0624: 4, S0420: 4, H0486: 4, H0013: 4, L0794: 4, L0666: 4, S0328: 4, H0521: 4, L0754: 4, L0731: 4, S0418: 3, S0356: 3, H0457: 3, L0471: 3, S0422: 3, H0422: 3, H0686: 2, S0212: 2, L0717: 2, H0052: 2, H0046: 2, H0591: 2, H0551: 2, L0646: 2, L0662: 2, L0803: 2, S0126: 2, L0753: 2, L0588: 2, L0599: 2, L0595: 2, H0171: 1, H0222: 1, S0114: 1, H0583: 1, S0180: 1, H0662: 1, H0228: 1, H0638: 1, S0360: 1, H0580: 1, H0329: 1, S0046: 1, H0586: 1, H0587: 1, H0497: 1, H0250: 1, H0156: 1, H0318: 1, S0474: 1, H0581: 1, H0421: 1, H0309: 1, H0545: 1, H0050: 1, H0023: 1, H0267: 1, H0271: 1, S0214: 1, H0328: 1, T0023: 1, H0031: 1, H0628: 1, L0455: 1, S0036: 1, H0163: 1, H0090: 1, H0634: 1, T0067: 1, H0268: 1, H0412: 1, H0413: 1, H0623: 1, T0041: 1, H0560: 1, S0464: 1, L0065: 1, H0646: 1, H0529: 1, L0769: 1, L0639: 1, L0637: 1, L0761: 1, L0649: 1, L0774: 1, L0775: 1, L0806: 1, L0803: 1, L0655: 1, L0656: 1, L0647: 1, L0367: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, H0690: 1, H0435: 1, H0659: 1, H0660: 1, H0648: 1, H0518: 1, S0152: 1, H0555: 1, H0436: 1, L0747: 1, L0749: 1, L0780: 1, H0668: 1, S042: 1, S0276: 1, H0543: 1, S0424: 1,</p>	2q32-q34	<p>100690, 100730, 118800, 123660, 135600, 142989, 156232, 157655, 178600, 186860, 201460, 205100, 262000, 278250, 600258, 601277, 601318</p>
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1130	HIMBB20	844890	1140	2308 - 2418	3737		1 and S0452: 1. L0766: 14, H0423: 9, L0659: 8, H0170: 6, H0657: 6, H0624: 4, S0420: 4, H0486: 4, H0013: 4, L0794: 4, L0666: 4, S0328: 4, H0521: 4, L0754: 4, L0731: 4, S0418: 3, S0356: 3, H0457: 3, L0471: 3, S0422: 3, H0422: 3, H0686: 2, S0212: 2, L0717: 2, H0052: 2, H0046: 2, H0591: 2, H0551: 2, L0646: 2, L0662: 2, L0803: 2, S0126: 2, L0755: 2, L0588: 2, L0599: 2, L0595: 2, H0171: 1, H0222: 1, S0114: 1, H0583: 1, S0180: 1, H0662: 1, H0228: 1, H0638: 1, S0360: 1, H0580: 1, H0329: 1, S0046: 1, H0586: 1, H0587: 1, H0497: 1, H0250: 1, H0156: 1, H0318: 1, S0474: 1, H0581: 1, H0421: 1, H0309: 1, H0545: 1, H0050: 1, H0023: 1, H0267: 1, H0271: 1, S0214: 1, H0328: 1, T0023: 1, H0031: 1, H0628: 1, L0455: 1, S0036: 1, H0163: 1, H0090: 1, H0634: 1, T0067: 1, H0268: 1, H0412: 1, H0413: 1, H0623: 1, T0041: 1, H0560: 1, S0464: 1, L0065: 1, H0646: 1, H0529: 1, L0769: 1, L0639: 1, L0637: 1, L0761: 1, L0649: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0655: 1, L0656: 1, L0647: 1, L0367: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, H0690: 1, H0435: 1, H0659: 1, H0660: 1, H0648: 1, H0518: 1, S0152: 1, H0555: 1, H0436: 1, L0747: 1, L0749: 1, L0780: 1, H0668: 1, S0242:	2q32-q34	100690, 100730, 118800, 123660, 135600, 142989, 156232, 157655, 178600, 186860, 201460, 205100, 262000, 278250, 600258, 601277, 601318
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1131	HJMBK59	664490	1141	42 - 254	3738	Pro-26 to Val-36, Ser-46 to Arg-52, Pro-58 to Ser-63.	1. S0276: 1. H0543: 1. S0424: 1 and S0452: 1. S0007: 9. L0731: 7. L0748: 6. L0759: 6. L0769: 5. L0766: 5. L0747: 5. L0750: 5. L0758: 4. H0438: 3. L0764: 3. L0755: 3. H0352: 3. S0046: 2. H0550: 2. S0010: 2. H0581: 2. H0014: 2. L0455: 2. H0124: 2. H0413: 2. S0144: 2. L0774: 2. L0775: 2. L0382: 2. S0126: 2. L0742: 2. L0757: 2. L0588: 2. L0485: 2. L0604: 2. L0362: 2. S0114: 1. H0484: 1. H0254: 1. S0420: 1. S0358: 1. H0580: 1. S0132: 1. H0549: 1. S0222: 1. H0370: 1. H0196: 1. H0052: 1. H0597: 1. H0545: 1. H0563: 1. H0123: 1. H0083: 1. H0271: 1. H0417: 1. H0598: 1. H0135: 1. H0163: 1. H0038: 1. H0087: 1. T0041: 1. H0494: 1. L0475: 1. H0641: 1. L0770: 1. L0637: 1. L0772: 1. L0771: 1. L0521: 1. L0662: 1. L0626: 1. L0768: 1. L0806: 1. L0776: 1. L0659: 1. L0518: 1. L0384: 1. L0809: 1. L0530: 1. H0144: 1. H0703: 1. H0593: 1. H0659: 1. H0666: 1. H0648: 1. S0152: 1. H0555: 1. S0390: 1. S0032: 1. L0745: 1. L0752: 1. L0753: 1. H0445: 1. S0434: 1. L0592: 1. S0194: 1. S0276: 1. S0196: 1. H0543: 1. H0423: 1. S0460: 1 and H0293: 1.	
1132	HJMBP01	638190	1142	58 - 195	3739	Asn-11 to Ser-17.	L0747: 4. L0752: 3. L0754: 2. L0731: 2. H0156: 1. H0597: 1. H0545: 1. L0142: 1. H0272: 1. H0625: 1. L0774: 1. L0783: 1. L0757: 1 and S0106: 1.	

1133	HIMBQ17	840456	1143	145 - 234	3740	AR089: 45, AR316: 35, AR060: 25 L0659: 10, S0212: 9, L0755: 6, L0731: 6, H0599: 3, L0757: 5, L0775: 4, L0603: 4, H0713: 3, S0132: 3, H0427: 3, S0312: 3, H0622: 3, H0553: 3, H0628: 3, L5565: 3, L0439: 3, L0740: 3, S0040: 2, H0717: 2, H0587: 2, H0635: 2, T0010: 2, H0266: 2, S0314: 2, H0163: 2, L0804: 2, L0751: 2, L0747: 2, L0750: 2, H0668: 2, S0194: 2, H0716: 1, S0116: 1, H0661: 1, S0358: 1, S0360: 1, H0730: 1, H0728: 1, S0045: 1, S0046: 1, S0476: 1, H0456: 1, H0549: 1, H0431: 1, H0370: 1, H0592: 1, H0632: 1, L0623: 1, H0486: 1, L0021: 1, H0706: 1, H0590: 1, H0618: 1, H0705: 1, T0071: 1, S0049: 1, H0545: 1, H0086: 1, H0024: 1, N0007: 1, H0510: 1, H0594: 1, H0124: 1, H0551: 1, S0352: 1, S0438: 1, H0509: 1, H0647: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0773: 1, L0378: 1, L0661: 1, L0783: 1, L5622: 1, L0788: 1, H0144: 1, H0519: 1, H0555: 1, S0390: 1, S0028: 1, L0753: 1, L0758: 1, S0434: 1 and S0276: 1.	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
1134	HIMBW62	589962	1144	105 - 281	3741	AR244: 6, AR265: 5, AR241: 4, AR249: 4, AR277: 4, AR184: 3, AR183: 2, AR310: 2, AR267: 2, AR313: 2, AR295: 1, AR263: 1, AR266: 1, AR284: 1, AR204: 1, AR312: 1,		

1135	HIMBX54	621356	1145	81 - 182	3742			AR213: 1, AR298: 1, AR294: 1, AR182: 1, AR233: 1 H0545: 1		
1136	HIPAF69	589794	1146	25 - 126	3743			H0545: 1 and S0192: 1, H0083: 1		
1137	HIPAQ19	566832	1147	66 - 938	3744			Gln-17 to Leu-23, Arg-75 to Lys-82, Leu-116 to Ser-138, Ser-98 to Asn-111, Tyr-156 to Ala-175, Leu-184 to Ala-198, Thr-204 to Gln-211, Ser-227 to Arg-236, Asp-264 to Arg-290, L0005: 2, H0032: 2, L0766: 2, L0748: 2, L0777: 2, L0593: 2, L0361: 2, S0040: 1, H0650: 1, H0341: 1, H0663: 1, H0638: 1, S0354: 1, S0376: 1, S0444: 1, S0360: 1, S0132: 1, H0409: 1, H0587: 1, H0642: 1, T0109: 1, H0013: 1, L0021: 1, S0010: 1, H0581: 1, H0546: 1, H0569: 1, L0471: 1, H0013: 1, H0083: 1, H0628: 1, H0122: 1, L0456: 1, H0090: 1, H0551: 1, H0264: 1, H0494: 1, L0763: 1, L0770: 1, L0774: 1, L0775: 1, L0784: 1, S0006: 1, H0520: 1, H0658: 1, H0670: 1, L0355: 1, H0555: 1, H0436: 1, S0122: 1, L0779: 1, L0755: 1, L0684: 1, S0276: 1, H0542: 1, H0543: 1, H0423: 1 and H0506: 1.	14	
1138	HIPAZ35	845379	1148	832 - 906	3745			AR218: 68, AR219: 68, AR274: 63, AR308: 50, AR312: 49, AR291: 48, AR247: 47, AR296: 45, AR174: 45, AR297: 45, AR309: 43, AR313: 43, AR270: 41, AR260: 40, AR269: 40, AR295: 40, AR289: 40, AR294: 39, AR096: 37, AR288: 37, AR285: 36, AR264: 36, AR258: 36, AR191: 35, AR188: 35, AR165: 35, AR256: 35, AR254: 35.	22q	

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1139	HIPB177	602875	1149	68 - 145	3746	<p>T0115: 1, H0041: 1, H0009: 1, H0565: 1, H0050: 1, L0471: 1, H0011: 1, S0050: 1, H0014: 1, H0373: 1, H0510: 1, H0188: 1, H0687: 1, H0028: 1, S0314: 1, S0250: 1, H0615: 1, H0688: 1, H0604: 1, H0644: 1, H0617: 1, H0169: 1, S0364: 1, H0708: 1, H0068: 1, H0598: 1, H0063: 1, H0264: 1, H0268: 1, H0059: 1, H0100: 1, L0351: 1, T0042: 1, H0396: 1, S0438: 1, H0509: 1, H0647: 1, H0646: 1, S0144: 1, S0344: 1, H0538: 1, S0210: 1, S0002: 1, L0371: 1, L0770: 1, L0627: 1, L0374: 1, L0773: 1, L0662: 1, L0364: 1, L0794: 1, L0551: 1, L0533: 1, L0803: 1, L0804: 1, L0630: 1, L0376: 1, L0784: 1, L0653: 1, L0657: 1, L0539: 1, L0526: 1, L0544: 1, H0697: 1, H0701: 1, T0068: 1, H0693: 1, H0520: 1, H0547: 1, H0593: 1, H0690: 1, H0682: 1, H0435: 1, S0378: 1, H0710: 1, H0521: 1, S0044: 1, H0694: 1, S0406: 1, H0555: 1, H0626: 1, L0612: 1, H0540: 1, S0037: 1, S0028: 1, L0744: 1, L0780: 1, L0752: 1, L0755: 1, S0260: 1, S0436: 1, L0589: 1, L0590: 1, L0592: 1, L0601: 1, S0026: 1, H0653: 1, H0136: 1, S0194: 1, H0542: 1, S0424: 1, S0458: 1 and H0506: 1.</p>
1139	HIPB177	602875	1149	68 - 145	3746	<p>S0418: 1, S0222: 1, H0083: 1, S0250: 1, S0002: 1, L0761: 1, L0803: 1, L0792: 1, H0521: 1 and L0605: 1.</p>
1140	HIPBN96	610087	1150	70 - 291	3747	<p>L0745: 27, H0584: 26,</p>
						10pter-q26.12

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	H0494; 25, H0556; 19, H0585; 19, H0069; 17, L0659; 17, H0265; 14, H0271; 14, L0666; 12, L0777; 12, S0132; 10, H0551; 10, S0360; 9, H0529; 9, L0662; 9, H0622; 8, L0653; 8, L0746; 8, H0656; 7, S0476; 7, H0575; 7, H0052; 7, H0083; 7, H0416; 7, H0039; 7, L0769; 7, L0664; 7, H0436; 7, H0581; 6, H0555; 6, H0224; 5, L0665; 5, S0126; 5, L0731; 5, S0212; 4, H0179; 4, S0312; 4, L0770; 4, L0774; 4, H0547; 4, H0435; 4, L0439; 4, L0596; 4, H0167; 3, S0040; 3, S0282; 3, S0046; 3, H0266; 3, S0314; 3, H0561; 3, S0440; 3, H0646; 3, L0768; 3, L0766; 3, L0657; 3, L0382; 3, L0809; 3, L0663; 3, H0710; 3, H0543; 3, H0141; 2, H0225; 2, H0222; 2, H0717; 2, H0663; 2, S0418; 2, S0376; 2, S0045; 2, H0550; 2, H0392; 2, H0586; 2, H0559; 2, L0586; 2, H0635; 2, H0427; 2, H0373; 2, T0010; 2, S0340; 2, H0634; 2, H0623; 2, H0625; 2, S0002; 2, L0637; 2, L0772; 2, L0804; 2, L0647; 2, S0052; 2, L0438; 2, H0593; 2, H0658; 2, H0539; 2, H0696; 2, S0406; 2, S3014; 2, S0028; 2, L0751; 2, L0779; 2, L0758; 2, H0445; 2, L0608; 2, L0595; 2, H0542; 2, H0423; 2, H0422; 2, S0424; 2, H0159; 1, H0713; 1, H0657; 1, H0341; 1, H0661; 1, H0402; 1, S0420; 1, S0356; 1, S0442; 1, H0580; 1, H0722; 1, H0645; 1, H0261; 1, H0592;
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1141	HUPB047	824063	1151	370 - 537	3748	Ser-31 to Ser-36, Pro-39 to Ser-45.	<p>1, H0587: 1, H0497: 1, H0362: 1, H0333: 1, H0643: 1, H0486: 1, T0060: 1, T0109: 1, H0250: 1, S0280: 1, H0036: 1, S0182: 1, H0196: 1, H0310: 1, H0024: 1, H0014: 1, H0015: 1, H0051: 1, H0201: 1, S0051: 1, H0375: 1, S0318: 1, S0334: 1, S0336: 1, S0316: 1, H0687: 1, H0288: 1, H0286: 1, H0252: 1, T0023: 1, L0483: 1, H0213: 1, H0553: 1, H0617: 1, S0364: 1, L0455: 1, H0708: 1, H0040: 1, H0413: 1, H0059: 1, T0041: 1, H0429: 1, S0370: 1, S0306: 1, H0647: 1, S0426: 1, L0369: 1, L0639: 1, L5565: 1, L0667: 1, L0646: 1, L0764: 1, L0773: 1, L0363: 1, L0803: 1, L0775: 1, L0375: 1, L0651: 1, L0378: 1, L0805: 1, L0652: 1, L0776: 1, L0636: 1, L0783: 1, L0383: 1, L0787: 1, S0428: 1, S0053: 1, H0701: 1, H0703: 1, H0520: 1, H0660: 1, H0672: 1, H0651: 1, S0378: 1, S0380: 1, H0518: 1, S0044: 1, H0134: 1, H0631: 1, S0390: 1, S0037: 1, S0027: 1, S0032: 1, L0740: 1, L0752: 1, L0755: 1, L0759: 1, S0434: 1, L0591: 1, H0653: 1, S0276: 1 and S0384: 1.</p>	
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1142	HUPCQ19	566853	1152	188 - 271	3749			2, L5623: 2, H0144: 2, H0682: 2, L0748: 2, L0750: 2, L0759: 2, H0265: 1, H0686: 1, H0713: 1, H0662: 1, H0402: 1, H0459: 1, S0418: 1, S0420: 1, S0442: 1, S0358: 1, S0444: 1, H0549: 1, H0257: 1, H0486: 1, L0021: 1, H0618: 1, H0253: 1, H0544: 1, L0157: 1, H0620: 1, S0051: 1, H0181: 1, H0163: 1, H0087: 1, H0412: 1, H0413: 1, H0056: 1, H0633: 1, H0529: 1, L5904: 1, L0761: 1, L0646: 1, L0800: 1, L0766: 1, L0649: 1, L0650: 1, L0809: 1, H0691: 1, H0689: 1, H0435: 1, H0666: 1, S0328: 1, S0330: 1, S0378: 1, S0380: 1, S0406: 1, L0779: 1, L0757: 1, H0595: 1, S0436: 1, H0352: 1 and H0712: 1.	5q35		123101, 164040, 208100, 246530
1143	HUPD108	561423	1153	134 - 235	3750	Tyr-28 to Ser-33.		AR060: 5, AR316: 4, AR089: 3 H0083: 1, S0036: 1, H0494: 1, L0766: 1, L0789: 1, S0330: 1 and L0779: 1.			
1144	HUPDK61	844034	1154	320 - 523	3751			AR060: 5, AR316: 4, AR089: 3 H0083: 1 L0794: 4, L0778: 1, T0048: 1, H0327: 1, H0012: 1, H0083: 1, H0038: 1, H0509: 1, L0770: 1, L0769: 1, L0659: 1, L0789: 1 and H0520: 1.	9		
1145	HKAB153	805966	1155	642 - 665	3752			AR089: 44, AR316: 43, AR060: 43 L0595: 6, L0748: 4, L0755: 4, L0581: 4, S0360: 3, S0408: 3, S0438: 3, L0738: 3, S0358: 2, S0444: 2, H0553: 2, H0616: 2, S0426: 2, L0764: 2, L0773: 2.	11		

1146	HKABN63	566840	1156	269 - 703	3753	His-69 to Tyr-80, Gln-131 to Glu-136.	<p>2, L0774: 2, L0776: 2, L0783: 2, H0522: 2, L0749: 2, L0596: 2, L0588: 2, L0601: 2, S0116: 1, H0638: 1, S0376: 1, H0331: 1, H0486: 1, H0036: 1, S0346: 1, H0318: 1, S0474: 1, L0738: 1, H0544: 1, L0163: 1, H0266: 1, H0687: 1, H0644: 1, H0090: 1, H0038: 1, H0494: 1, S0440: 1, H0509: 1, H0633: 1, L0769: 1, L0363: 1, L0794: 1, L0766: 1, L0784: 1, L0809: 1, S0374: 1, H0638: 1, H0672: 1, S0380: 1, S0027: 1, L0754: 1, L0750: 1, L0777: 1, L0780: 1, L0752: 1, S0196: 1 and H0543: 1.</p> <p>AR060: 2, AR316: 2, H0265: 3, H0556: 2, H0617: 2, S0440: 2, L0766: 2, S0356: 1, H0370: 1, H0618: 1, H0546: 1, H0090: 1, H0494: 1, S0422: 1, H0529: 1, L0763: 1, L0639: 1, L0643: 1, L0774: 1, L0665: 1, S0328: 1, L0751: 1, H0423: 1 and S0424: 1.</p>			
1147	HKACA25	824087	1157	213 - 269	3754		<p>L0748: 13, L0666: 10, L0659: 8, S0474: 6, L0754: 6, L0595: 6, L0662: 5, L0803: 5, L0664: 5, S0436: 5, H0046: 4, H0644: 4, H0623: 4, L0774: 4, H0521: 4, H0556: 3, S0444: 3, S0046: 3, H0553: 3, H0494: 3, L0764: 3, L0747: 3, L0750: 3, L0752: 3, L0759: 3, L0603: 3, H0295: 2, H0294: 2, H0254: 2, S0442: 2, S0408: 2, S0045: 2, H0619: 2, H0393: 2, H0370: 2, H0590: 2, H0024: 2, H0622: 2, H0264: 2, S0144: 2, S0142: 2, S0344: 2, H0538: 2, S0002: 2,</p>			

1148	HKAC064	897591	1158	290 - 580	3755	Cys-35 to Gln-56, Ser-79 to Ser-88.	L0763: 2, L0768: 2, L0783: 2, L0382: 2, L0809: 2, L0663: 2, S0374: 2, H0520: 2, H0547: 2, S0152: 2, L0743: 2, L0740: 2, L0749: 2, S0434: 2, L0596: 2, L0581: 2, L0593: 2, H0395: 1, H0713: 1, H0716: 1, T0049: 1, S0116: 1, H0255: 1, H0662: 1, H0638: 1, S0420: 1, S0356: 1, S0354: 1, S0358: 1, S0410: 1, H0580: 1, H0729: 1, S0132: 1, S0476: 1, S0278: 1, S6022: 1, H0586: 1, H0587: 1, H0331: 1, H0013: 1, L0022: 1, H0575: 1, H0581: 1, H0123: 1, H0050: 1, S0051: 1, S0368: 1, H0031: 1, L0142: 1, H0617: 1, H0598: 1, H0634: 1, H0663: 1, H0268: 1, H0059: 1, H0100: 1, H0625: 1, H0396: 1, S0440: 1, H0509: 1, H0641: 1, H0647: 1, H0646: 1, H0649: 1, H0652: 1, S0422: 1, L0772: 1, L0646: 1, L0800: 1, L0771: 1, L0773: 1, L0648: 1, L0363: 1, L0766: 1, L0649: 1, L0389: 1, L0551: 1, L0375: 1, L0653: 1, L0655: 1, L0658: 1, L0634: 1, L0636: 1, L0517: 1, L0790: 1, L0665: 1, S0310: 1, H0519: 1, H0593: 1, H0689: 1, H0690: 1, H0658: 1, H0648: 1, S0328: 1, S0378: 1, H0518: 1, S0013: 1, S0044: 1, S0406: 1, H0436: 1, L0742: 1, L0779: 1, L0780: 1 and S0456: 1.
							L0747: 27, L0752: 7, H0586: 6, H0494: 3, S0352: 3, H0592: 2, H0587: 2, L0764: 2, L0648: 2, L0775: 2, L0744: 2, L0751: 2, L0750: 2, S6024: 1, S0476:

1149	HKACP50	828243	1159	530 - 577	3756		1, H0392: 1, H0600: 1, L0021: 1, H0150: 1, H0620: 1, H0024: 1, H0188: 1, H0604: 1, H0032: 1, H0087: 1, T0067: 1, H0379: 1, L0763: 1, L0794: 1, L0774: 1, L0657: 1, L0636: 1, L0809: 1, L5623: 1, L0666: 1, L0664: 1, L0665: 1, S0126: 1, H0689: 1, H0670: 1, S0406: 1, H0555: 1, L0779: 1, L0780: 1, L0758: 1 and S0192: 1.		
							1, H0439: 7, L0777: 5, L0659: 2, L0438: 2, L0752: 2, H0717: 1, H0657: 1, H0619: 1, H0486: 1, H0156: 1, H0581: 1, H0032: 1, H0165: 1, H0494: 1, L0772: 1, L0803: 1, L0775: 1, L0779: 1, H0543: 1 and H0423: 1.		
1150	HKACX90	604042	1160	146 - 220	3757	Glu-1 to Gly-11, Met-18 to Thr-24.	AR089: 24, AR316: 19, AR060: 15 L0747: 6, L0649: 4, L0750: 4, H0657: 3, H0036: 3, L0764: 3, H0445: 3, H0656: 2, S0444: 2, H0580: 2, H0549: 2, L0775: 2, L0657: 2, L0518: 2, H0670: 2, S0380: 2, H0696: 2, H0436: 2, L0749: 2, L0777: 2, L0752: 2, L0738: 2, H0686: 1, S0116: 1, S0212: 1, H0254: 1, H0255: 1, S0442: 1, S0358: 1, S6022: 1, H0497: 1, H0333: 1, H0486: 1, H0421: 1, H0204: 1, H0081: 1, H0023: 1, H0687: 1, S0364: 1, H0059: 1, H0494: 1, H0646: 1, S0422: 1, S0002: 1, L0644: 1, L0768: 1, L0766: 1, L0533: 1, L0774: 1, L0806: 1, L0782: 1, L0809: 1, L0793: 1, H0659: 1, H0658: 1, H0660: 1, H0651: 1, S0406: 1, L0757: 1, S0194: 1.		

1151	HKAD127	1028177	1161	125 - 568	3758	Phe-59 to Lys-77, Lys-84 to Ser-89, Trp-110 to Tyr-120.	1, S0424: 1, L0600: 1 and H0352: 1. L0766: 3, L0748: 2, L0755: 2, H0098: 1, L0471: 1, H0083: 1, H0090: 1, H0038: 1, H0494: 1, H0560: 1, H0509: 1, L0772: 1, L0803: 1, H0520: 1, S0152: 1, H0521: 1, L0759: 1 and H0543: 1.		
1152	HKADN26	845987 802131	2605 1162	243 - 299 335 - 379	5202 3759	Ala-4 to Gly-10.	H0253: 7, L0794: 7, L0761: 5, L0758: 5, H0402: 4, S0002: 4, S0358: 3, H0586: 3, H0618: 3, H0457: 3, L0766: 3, L0774: 3, L0659: 3, L0666: 3, H0717: 2, H0484: 2, H0551: 2, L0770: 2, L3566: 2, L0764: 2, L0649: 2, L0793: 2, H0684: 2, H0670: 2, H0539: 2, H0696: 2, L0748: 2, L0779: 2, H0543: 2, H0306: 1, S0420: 1, L0617: 1, S0046: 1, H0261: 1, H0592: 1, H0485: 1, H0590: 1, T0048: 1, H0318: 1, H0421: 1, H0552: 1, H0530: 1, H0179: 1, H0188: 1, H0622: 1, H0617: 1, H0124: 1, H0135: 1, H0038: 1, H0264: 1, H0413: 1, H0623: 1, S0038: 1, L0351: 1, H0494: 1, H0561: 1, H0641: 1, S0422: 1, L0763: 1, L0769: 1, L3565: 1, L0667: 1, L0646: 1, L0800: 1, L0643: 1, L0644: 1, L0771: 1, L0662: 1, L0768: 1, L0386: 1, L0533: 1, L0806: 1, L0653: 1, L0657: 1, L0664: 1, H0691: 1, H0503: 1, H0518: 1, H0521: 1, S0404: 1, H0436: 1, L0743: 1, L0777: 1, S0436: 1, L0366: 1 and L0600: 1.		
1153	HKADP79	754688	1163	462 - 572	3760		L0794: 6, L0752: 5, S0360: 1.		

1154	HKADT55	668243	1164	62 - 139	3761				2, L0764: 2, L0666: 2, L0740: 2, L0731: 2, L0757: 2, L0758: 2, S0420: 1, H0208: 1, S0476: 1, H0598: 1, H0412: 1, H0494: 1, H0646: 1, L0770: 1, L0761: 1, L0800: 1, L0662: 1, L0806: 1, L0776: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, H0658: 1 and H0521: 1.	
1155	HKAEK58	695729	1165	154 - 1284	3762	Asp-4 to Phe-10, Phe-98 to Phe-107, Gly-170 to Gly-176, Gly-192 to Thr-205, Gln-303 to Asp-308.	AR089: 4, AR316: 3, AR060: 3, L0439: 8, L0748: 5, H0169: 3, L0766: 3, H0556: 2, S0442: 2, S0046: 2, H0024: 2, H0674: 2, H0506: 1.	11q25	602782	

							2, H0494: 2, S0422: 2, L0770: 2, L0530: 2, H0547: 2, H0672: 2, H0478: 2, L0731: 2, S0436: 2, H0484: 1, S0418: 1, S0358: 1, H0580: 1, H0722: 1, H0733: 1, H0393: 1, H0261: 1, S0222: 1, H0586: 1, H0587: 1, T0112: 1, H0013: 1, H0156: 1, H0706: 1, S0010: 1, H0545: 1, H0050: 1, L0471: 1, H0014: 1, H0015: 1, H0356: 1, S0028: 1, H0688: 1, H0039: 1, H0553: 1, L0055: 1, S0440: 1, S0144: 1, S0002: 1, L0598: 1, H0529: 1, L0771: 1, L0649: 1, L0774: 1, L0659: 1, L0384: 1, L0666: 1, L0663: 1, H0702: 1, H0519: 1, S0328: 1, H0521: 1, S0176: 1, S0027: 1, L0744: 1, L0740: 1, L0779: 1, L0777: 1, L0759: 1, H0444: 1, S0434: 1, L0366: 1, H0543: 1, H0422: 1 and H0506: 1.		
1156	HKA/EK72	840457	1166	78 - 602	3763	Pro-32 to Ser-39, Ser-45 to Asp-50, Glu-153 to Leu-159, Phe-166 to Phe-173.	AR219: 21, AR218: 19, AR313: 14, AR270: 13, AR182: 13, AR229: 13, AR263: 11, AR281: 11, AR258: 11, AR183: 11, AR269: 10, AR238: 10, AR293: 10, AR184: 10, AR289: 10, AR296: 9, AR299: 9, AR268: 9, AR315: 9, AR295: 9, AR284: 9, AR285: 8, AR292: 8, AR267: 8, AR291: 8, AR265: 8, AR286: 8, AR280: 8, AR266: 8, AR294: 8, AR314: 8, AR096: 8, AR175: 8, AR290: 7, AR177: 7, AR226: 7.		

1157	HKAJ47	845521	1167	145 - 240	3764		AR248: 7, AR033: 7, AR231: 7, AR298: 7, AR247: 7, AR240: 6, AR234: 6, AR239: 6, AR251: 6, AR236: 6, AR237: 6, AR089: 6, AR233: 6, AR227: 6, AR316: 5, AR253: 5, AR232: 5, AR179: 5, AR300: 5, AR060: 4, AR283: 4, AR282: 4, AR310: 4, AR277: 3, AR249: 3, AR275: 3, AR185: 3, AR274: 2, AR312: 2, AR055: 2, AR061: 1 H0494: 1 S0408: 4, L0770: 2, L0809: 2, H0170: 1, H0717: 1, H0583: 1, S0282: 1, H0662: 1, S0360: 1, H0411: 1, S0278: 1, H0586: 1, H0587: 1, H0331: 1, H0632: 1, H0486: 1, L0586: 1, H0036: 1, H0565: 1, H0051: 1, S0250: 1, H0039: 1, L0483: 1, H0316: 1, H0038: 1, H0059: 1, H0494: 1, S0208: 1, L0766: 1, L0551: 1, L0803: 1, L0804: 1, L0651: 1, L0655: 1, L0526: 1, L0783: 1, L0793: 1, H0659: 1, H0555: 1, L0740: 1, S0434: 1 and H0423: 1.		
1158	HKAJQ41	847281	1168	487 - 666	3765	Val-5 to Ala-11, Pro-15 to Glu-34.	S0414: 18, H0038: 8, L0758: 8, H0616: 6, L0771: 3, L0803: 3, S0036: 2, L0794: 2, L0740: 2, L0754: 2, L0756: 2, L0753: 2, L0596: 2, S0412: 2, S0376: 1, L0717: 1, H0574: 1, H0253: 1, H0050: 1, H0510: 1, H0266: 1, H0615: 1, L0055: 1, S0386: 1.	20q13.3-qter	

1159	HKAHH71	846826	1169	462 - 608	3766	Phe-43 to Ser-48.	1, H0494: 1, H0647: 1, L0768: 1, L0766: 1, L0655: 1, L0527: 1, L0657: 1, L0659: 1, L0809: 1, L0791: 1, H0435: 1, S014: 1, L0779: 1, L0777: 1, L0780: 1, L0759: 1 and S0031: 1. AR089: 24, AR316: 19, AR060: 15 H0494: 2, L0769: 2, H0265: 1, H0486: 1, H0036: 1, H0263: 1, H0235: 1, H0356: 1, H0553: 1, H0551: 1, L0763: 1, L0761: 1, L0803: 1, L0809: 1, L0663: 1, H0547: 1, H0539: 1, H0518: 1 and L0731: 1.		
1160	HKAJA95	834557	1170	73 - 108	3767		AR060: 2, AR316: 1 H0171: 4, L0766: 4, L0748: 4, S0474: 3, H0263: 3, L0666: 3, L0779: 3, L0758: 3, S0360: 2, S0410: 2, H0013: 2, L0118: 2, H0628: 2, H0181: 2, L0773: 2, L0659: 2, L0663: 2, H0519: 2, L0754: 2, L0757: 2, S0434: 2, L0595: 2, H0556: 1, S0040: 1, S0218: 1, H0657: 1, S0418: 1, S0356: 1, S0358: 1, S0045: 1, L0717: 1, H0586: 1, H0587: 1, H0581: 1, H0052: 1, H0235: 1, H0046: 1, H0150: 1, H0050: 1, L0471: 1, H0024: 1, H0071: 1, H0083: 1, H0328: 1, H0615: 1, H0163: 1, H0040: 1, H0413: 1, L0351: 1, H0494: 1, S0142: 1, S0002: 1, H0529: 1, L0769: 1, L0639: 1, L0667: 1, L0373: 1, L0375: 1, L0806: 1, L0657: 1, L0809: 1, H0144: 1, H0659: 1, H0672: 1, S0328: 1, S0350: 1, H0696: 1, S0432: 1, L0747: 1, L0777: 1, L0752: 1, L0755:		

1161	HKAKU90	838608	1171	1 - 1251	3768	Asn-1 to Val-8, Ser-16 to Ser-23, Pro-44 to Thr-53, Ala-87 to Pro-103, Ser-134 to Pro-147, Arg-205 to Gly-210, Asn-217 to Gly-222, His-240 to His-246, Gln-255 to Tyr-260, Asn-265 to Lys-274, Lys-277 to Val-283, Gln-313 to Ser-319, Met-347 to Ser-358, Gln-382 to Thr-396, Phe-406 to Ile-417.	1, L0605: 1, L0599: 1, S0194: 1, S0276: 1 and H0293: 1. AR089: 8, AR316: 7, AR060: 6 L0777: 11, L0749: 5, L0766: 3, L0809: 3, H0638: 3, L0748: 3, L0439: 3, L0755: 3, L0758: 3, L0717: 2, H0052: 2, H0615: 2, H0494: 2, L0771: 2, L0768: 2, L0775: 2, L0806: 2, L0666: 2, L0438: 2, L0747: 2, L0750: 2, L0753: 2, L0596: 2, L0599: 2, S0134: 1, H0657: 1, S0376: 1, S0444: 1, H0586: 1, H0486: 1, T0109: 1, S0010: 1, H0263: 1, H0150: 1, S0003: 1, S0036: 1, H0591: 1, L0351: 1, L0564: 1, H0625: 1, S0438: 1, H0641: 1, L0369: 1, L0763: 1, L0770: 1, L0772: 1, L0648: 1, L0662: 1, L0363: 1, L0774: 1, L0651: 1, L0657: 1, L0647: 1, L0788: 1, L0792: 1, L0664: 1, H0684: 1, H0670: 1, L0745: 1, L0779: 1, L0603: 1, S0026: 1, S0276: 1 and H0543: 1. H0204: 1	2per-p25.1	134934, 134934, 134934, 134934, 134934, 143100, 180072, 180072, 194190, 252800, 252800, 252800, 600965
1162	HKCSZ54	600229	1172	33 - 149	3769			4p16.3	
1163	HKFAA15	753275	1173	114 - 173	3770		L0748: 19, L0740: 5, S0360: 3, L0749: 3, L0485: 3, H0635: 2, H0647: 2, S0002: 2, L0775: 2, L0659: 2, H0521: 2, L0779: 2, H0624: 1, H0556: 1, L0005: 1, H0580: 1, S0045: 1, H0549: 1, T0039: 1, H0250: 1, H0590:		

1164	HKFB08	826713	1174	142 - 234	3771			1, S0010: 1, L0105: 1, H0209: 1, H0123: 1, H0023: 1, S6028: 1, H0247: 1, S0214: 1, H0622: 1, L0483: 1, H0644: 1, H0591: 1, H0623: 1, T0042: 1, H0280: 1, H0561: 1, S0142: 1, S0426: 1, H0529: 1, L0536: 1, L0661: 1, L0517: 1, L0518: 1, L0792: 1, S0126: 1, H0672: 1, H0539: 1, S0146: 1, H0436: 1, L0743: 1, L0777: 1, H0757: 1, L0758: 1 and L0759: 1.	
1165	HKGAG59	741051	1175	290 - 385	3772	Lys-7 to Leu-15, Ser-24 to Lys-31.		H0429: 1 and H0521: 1. H0538: 1	
1166	HKGAI81	581063	1176	151 - 264	3773	Pro-29 to Asp-37.		H0538: 1	
1167	HKGAK45	809093	1177	762 - 896	3774	Asp-23 to Gly-33, Gln-39 to Thr-44.		H0124: 1, H0538: 1 and H0658: 1.	
1168	HKGAP04	846832	1178	213 - 314	3775			H0538: 1	
1169	HKGAP57	841627	1179	1155 - 1289	3776			AR089: 5, AR316: 3, AR060: 2 L0748: 2, S0114: 1 and H0538: 1.	
1170	HKGAW41	858745	1180	379 - 456	3777			H0538: 2	
1171	HKGBA21	822870	1181	109 - 225	3778	Ser-27 to His-38.		H0251: 2, S0040: 1, H0643: 1, H0013: 1, H0538: 1, L0776: 1 and H0519: 1.	
1172	HKGBC33	823368	1182	43 - 162	3779	Asn-20 to Ser-34.		H0538: 1 and H0445: 1.	
1173	HKGBC73	608169	1183	301 - 399	3780			H0538: 1	
1174	HKGBP61	658697	1184	225 - 302	3781			AR089: 5, AR316: 3, AR060: 2 H0538: 1	
1175	HKGBH54	588482	1185	351 - 488	3782			H0538: 1	
1176	HKGBP52	899282	1186	36 - 164	3783	Leu-31 to Lys-42.		L0754: 5, L0758: 4, L0804: 2, L0805: 2, L0748: 2, L0439: 2, L0740: 2, L0005: 1, S0356: 1, S0360: 1, S0007: 1, H0331: 1, H0553: 1, H0040: 1, L0351: 1, H0538: 1, S0426: 1, L0800: 1.	

1177	HKGC23	564825	1187	136 - 225	3784		1, L0764: 1, L0803: 1, L0775: 1, L0776: 1, L0809: 1, L0789: 1, L0663: 1, L0749: 1, L0731: 1 and L0757: 1 H0550: 2, L0448: 1, H0637: 1, H0563: 1, S0028: 1, H0634: 1, S0112: 1, H0429: 1, H0560: 1, H0649: 1, H0538: 1, L0766: 1, L0523: 1, L0805: 1, L0789: 1, H0539: 1, H0521: 1, L0779: 1, L0758: 1 and S0192: 1.			
1178	HKGC562	638200	1188	44 - 166	3785		H0538: 2 and H0543: 1.			
1179	HKGC41	559327	1189	308 - 616	3786		H0457: 7, L0439: 4, L0744: 3, L0748: 3, H0341: 2, H0659: 2, L0743: 2, L0747: 2, L0786: 2, L0777: 2, H0556: 1, H0656: 1, L0471: 1, S0028: 1, S0003: 1, H0030: 1, H0633: 1, H0538: 1, H0529: 1, L0766: 1, L0774: 1, L0655: 1, L0659: 1, L0792: 1, L0666: 1, H0555: 1, L0740: 1, L0754: 1, L0745: 1, L0752: 1, L0755: 1, L0758: 1, L0594: 1, S0011: 1, S0026: 1, S0242: 1, H0542: 1 and H0543: 1.	12p13.3		103950, 193100, 193400, 200990, 601458
1180	HKGC41	795256	1190	316 - 624	3787		H0457: 7, L0439: 4, L0744: 3, L0748: 3, H0341: 2, H0659: 2, L0743: 2, L0747: 2, L0786: 2, L0777: 2, H0556: 1, H0656: 1, L0471: 1, S0028: 1, S0003: 1, H0030: 1, H0633: 1, H0538: 1, H0529: 1, L0766: 1, L0774: 1, L0655: 1, L0659: 1, L0792: 1, L0666: 1, H0555: 1, L0740: 1, L0754: 1, L0745: 1, L0752: 1, L0755: 1, L0758: 1, L0594: 1, S0011: 1, S0026: 1, S0242: 1, H0542: 1 and H0543: 1.	12p13.3		103950, 193100, 193400, 200990, 601458
1181	HKGCN06	833981	1191	303 - 347	3788		H0538: 1			

1182	HKGCX05	590150	1192	329 - 502	3789	Met-1 to Gln-6, Pro-32 to Ser-44, Ala-12 to Gly-18, Lys-80 to Gln-92, Phe-96 to Thr-102, Leu-106 to Asp-113.	H0538: 1 L0747: 5, L0769: 4, L0776: 3, L0809: 3, S0404: 3, L0756: 3, L0731: 3, L0759: 3, H0545: 2, H0551: 2, L0772: 2, L0764: 2, L0774: 2, L0775: 2, L0655: 2, L0659: 2, H0670: 2, L0740: 2, L0754: 2, L0750: 2, L0752: 2, L0757: 2, H0685: 1, H0650: 1, H0656: 1, H0341: 1, S0212: 1, S0358: 1, H0637: 1, S0007: 1, L0622: 1, H0009: 1, H0239: 1, T0079: 1, S0628: 1, H0617: 1, S0364: 1, H0708: 1, S0036: 1, H0059: 1, H0100: 1, T0041: 1, H0494: 1, L0065: 1, H0538: 1, L0770: 1, L0794: 1, L0766: 1, L0803: 1, L0804: 1, L0376: 1, L0806: 1, L0629: 1, L0512: 1, L0783: 1, L0382: 1, L0789: 1, H0711: 1, H0658: 1, H0660: 1, H0696: 1, L0780: 1, L0755: 1, S0434: 1, H0423: 1 and H0712: 1.	10q24.1-q24.3	113811, 124020, 134637, 138250, 157640, 167409, 174900, 202110, 278000, 278000, 600095, 600512
1184	HKGDO12	857225	1194	145 - 342	3791	His-60 to Ser-65.	H0538: 1		
1185	HKIME53	636982	1195	26 - 148	3792	Gly-33 to Gly-38.	AR089: 11, AR316: 9, AR060: 8 H0618: 7, L0747: 6, L0439: 5, H0617: 3, L0766: 3, L0438: 3, H0580: 2, H0528: 2, L0783: 2, H0694: 2, S0434: 2, H0717: 1, S0442: 1, S0360: 1, S0408: 1, H0208: 1, S0045: 1, H0261: 1, H0550: 1, H0586: 1, H0333: 1, H0559: 1, H0486: 1, H0253: 1, T0048: 1, H0546: 1, T0003: 1, H0024: 1, H0373: 1, H0399: 1, H0292: 1, H0135: 1, L5565: 1, L0761: 1, L0630: 1, L0767:	11	

1190	HKIXS19	654849	1200	183 - 278	3797					3, L0439: 3, H0170: 2, H0550: 2, H0497: 2, H0052: 2, H0263: 2, H0031: 2, L0625: 2, L0769: 2, L0761: 2, L0372: 2, L0766: 2, L0438: 2, H0539: 2, L0777: 2, S0436: 2, L0604: 2, H0265: 1, H0295: 1, S0114: 1, L0417: 1, H0255: 1, H0663: 1, S0418: 1, S0356: 1, S0442: 1, S0444: 1, H0728: 1, S0007: 1, S0046: 1, S0476: 1, H0549: 1, H0441: 1, H0586: 1, L0622: 1, H0486: 1, H0599: 1, H0706: 1, H0618: 1, T0006: 1, S0366: 1, H0488: 1, H0100: 1, L0351: 1, T0042: 1, H0132: 1, S0002: 1, L0770: 1, L5566: 1, L0772: 1, L0373: 1, L0646: 1, L0764: 1, L0662: 1, L0649: 1, L0650: 1, L0774: 1, L0775: 1, L0638: 1, L0659: 1, H0593: 1, H0651: 1, S0330: 1, S0152: 1, S0404: 1, S0406: 1, H0555: 1, H0631: 1, S0432: 1, L0744: 1, L0748: 1, H0445: 1, S0434: 1, L0485: 1, H0542: 1 and H0422: 1.		278250, 600258
										AR060: 11, AR316: 10, AR089: 10 H0052: 24, L0439: 15, S0412: 14, S0010: 12, H0599: 8, L0438: 7, S0222: 5, H0441: 3, H0156: 3, S0346: 3, T0010: 3, T0006: 3, L0455: 3, L0456: 3, L0779: 3, L0759: 3, S0049: 2, H0009: 2, H0562: 2, H0012: 2, S0036: 2, L0770: 2, L0794: 2, L0806: 2, L0352: 2, L0756: 2, L0753: 2, L0731: 2, L0588: 2, L0366: 2, S6024: 1, H0661: 1, S0420: 1, S0046: 1, H0351: 1		

1191	HKIXW45	704089	1201	196 - 294	3798		<p>1, H0261: 1, H0438: 1, S0005: 1, H0013: 1, H0194: 1, L0163: 1, S0388: 1, S6028: 1, H0266: 1, S0340: 1, T0023: 1, H0213: 1, H0413: 1, S0038: 1, L0351: 1, L0370: 1, L0769: 1, L0630: 1, L0654: 1, L0655: 1, L0783: 1, L0809: 1, L0647: 1, S0378: 1, H0555: 1, L0612: 1, L0741: 1, L0747: 1, L0758: 1, L0684: 1, L0584: 1 and S0456: 1.</p>		
							<p>AR089: 42, AR316: 35, AR060: 29, L0748: 25, L0754: 21, L0439: 12, L0752: 11, L0747: 10, L0740: 9, L0438: 8, L0731: 8, L0758: 8, L0757: 7, L0455: 6, L0776: 6, S0474: 5, L0769: 5, S0003: 4, L0764: 4, L0596: 4, S0360: 3, H0013: 3, H0599: 3, S0010: 3, H0052: 3, H0544: 3, H0266: 3, H0553: 3, H0551: 3, L0770: 3, L0766: 3, S0354: 2, H0580: 2, S0278: 2, S0222: 2, H0318: 2, H0581: 2, H0421: 2, H0231: 2, S0214: 2, H0616: 2, H0494: 2, L0771: 2, L0768: 2, L0775: 2, L0651: 2, L0665: 2, H0144: 2, L0352: 2, H0547: 2, H0659: 2, H0539: 2, H0710: 2, H0522: 2, L0750: 2, L0779: 2, L0753: 2, L0759: 2, L0591: 2, L0592: 2, L0483: 2, L0595: 2, L0362: 2, L0600: 2, H0624: 1, H0265: 1, H0556: 1, S0114: 1, S0134: 1, H0656: 1, S0282: 1, H0638: 1, S0356: 1, S0376: 1, H0637: 1, H0329: 1, S0045: 1, H0640: 1, S0300: 1, H0369: 1, H0261: 1, H0441: 1.</p>		

1192	HKIYU90	772546	1202	396 - 449	3799		<p>H0453: 1, H0497: 1, H0632: 1, H0486: 1, H0156: 1, L0021: 1, H0097: 1, H0575: 1, H0036: 1, H0618: 1, S0049: 1, H0194: 1, H0545: 1, H0123: 1, H0050: 1, L0471: 1, H0051: 1, S0388: 1, S0628: 1, H0179: 1, H0328: 1, H0622: 1, L0483: 1, H0030: 1, H0644: 1, H0628: 1, H0032: 1, H0591: 1, H0038: 1, H0063: 1, H0413: 1, H0633: 1, T0004: 1, S0382: 1, S0440: 1, H0509: 1, H0646: 1, S0344: 1, S0426: 1, L0598: 1, L0763: 1, L0371: 1, L0638: 1, L0646: 1, L0767: 1, L0774: 1, L0375: 1, L0655: 1, L0657: 1, L0659: 1, L0526: 1, L0382: 1, L0519: 1, L0792: 1, L0663: 1, L0664: 1, S0053: 1, H0658: 1, H0670: 1, S0152: 1, H0521: 1, S014: 1, S0028: 1, L0744: 1, L0745: 1, L0756: 1, S0031: 1, S0260: 1, H0445: 1, L0588: 1, L0599: 1, L0593: 1, H0665: 1, S0192: 1, S0196: 1, H0542: 1, L0462: 1 and H0008: 1.</p>	11	
1193	HKMLB81	610017	1203	59 - 160	3800		<p>AR089: 75, AR316: 66, AR060: 59 L0741: 3, S0051: 2, L0665: 2, S6024: 1, S0300: 1, H0441: 1, L0622: 1, L0623: 1, S0346: 1, S0388: 1, L0770: 1, L0766: 1, L0375: 1, L0805: 1, L0559: 1 and L0659: 1.</p>		
1194	HKMLF77	604743	1204	203 - 295	3801	Glu-19 to Asn-24.	H0431: 1		
1195	HKMLM32	826523	1205	287 - 334	3802		H0346: 1 and H0431: 1.		
1196	HKMLR17	847432	1206	329 - 1210	3803	Glu-24 to Tyr-32.	AR182: 36, AR269: 27.		

Pro-40 to Ala-56, Glu-82 to Arg-88, Asn-101 to Pro-114, Pro-148 to Val-159, Glu-178 to Gly-184, Glu-187 to Ser-192, Glu-263 to Lys-268, Leu-289 to Cys-294,					AR175: 27, AR176: 27, AR173: 24, AR183: 23, AR191: 21, AR270: 20, AR189: 20, AR190: 19, AR174: 16, AR177: 13, AR210: 12, AR180: 9, AR181: 9, AR165: 8, AR268: 8, AR164: 8, AR192: 8, AR215: 8, AR166: 8, AR221: 7, AR178: 7, AR266: 7, AR162: 7, AR235: 7, AR290: 7, AR244: 6, AR255: 6, AR161: 6, AR163: 6, AR184: 6, AR211: 6, AR216: 6, AR288: 5, AR296: 5, AR060: 5, AR228: 5, AR267: 5, AR169: 5, AR223: 5, AR252: 4, AR257: 4, AR229: 4, AR206: 4, AR214: 4, AR217: 4, AR316: 4, AR236: 4, AR222: 4, AR254: 4, AR225: 4, AR179: 4, AR194: 4, AR224: 4, AR287: 4, AR196: 4, AR171: 4, AR226: 4, AR289: 4, AR061: 4, AR284: 3, AR200: 3, AR186: 3, AR240: 3, AR089: 3, AR286: 3, AR185: 3, AR233: 3, AR247: 3, AR274: 3, AR246: 3, AR264: 3, AR282: 3, AR055: 3, AR237: 3, AR262: 3, AR313: 3, AR239: 3, AR261: 3, AR273: 3, AR053: 3,
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1197	HKMLT89	826167	1207	87 - 209	3804	<p>AR096: 3, AR230: 3, AR204: 3, AR168: 3, AR299: 3, AR310: 3, AR297: 3, AR207: 3, AR309: 3, AR277: 3, AR052: 3, AR238: 3, AR300: 3, AR272: 3, AR249: 3, AR213: 3, AR188: 3, AR311: 3, AR295: 3, AR291: 3, AR195: 3, AR294: 2, AR260: 2, AR293: 2, AR172: 2, AR199: 2, AR251: 2, AR312: 2, AR285: 2, AR234: 2, AR205: 2, AR259: 2, AR033: 2, AR232: 2, AR256: 2, AR231: 2, AR298: 2, AR203: 2, AR227: 2, AR275: 2, AR243: 2, AR292: 2, AR104: 2, AR201: 2, AR308: 2, AR258: 2, AR271: 2, AR283: 2, AR263: 2, AR212: 1, AR039: 1 L0731: 16, L0748: 4, L0749: 4, S0360: 3, L0750: 3, H0716: 2, L0774: 2, L0747: 2, L0755: 2, L0759: 2, L0603: 2, H0713: 1, H0717: 1, S0223: 1, H0431: 1, H0592: 1, H0574: 1, H0427: 1, H0373: 1, H0252: 1, L0143: 1, H0163: 1, L0769: 1, L0775: 1, L0636: 1, L0809: 1, L5622: 1, S0216: 1, H0144: 1, S0146: 1, L0777: 1, H0343: 1 and S0276: 1 L0751: 2, H0431: 1, H0553: 1, L0662: 1, L0527: 1 and</p>	
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1198	HKMLV05	663924	1208	494 - 592	3805	Gln-22 to Asp-31.	H0444: 1. H0431: 2, L0362: 2, S0114: 1, L0800: 1, L0766: 1, L0747: 1, L0750: 1, L0589: 1 and L0591: 1.			
1199	HKMLV25	695731	1209	251 - 346	3806		AR060: 73, AR089: 73, AR316: 73 S0438: 7, S0406: 7, L0659: 6, S0374: 6, S0354: 5, L0771: 4, S0404: 4, S0356: 3, S0358: 3, S0408: 3, H0431: 3, H0486: 3, H0510: 3, H0039: 3, H0641: 3, L0776: 3, L0666: 3, L0748: 3, S0376: 2, S0360: 2, S0278: 2, H0331: 2, H0090: 2, H0509: 2, L0769: 2, L0768: 2, L0649: 2, L0774: 2, L0775: 2, L0655: 2, H0547: 2, H0658: 2, H0521: 2, H0555: 2, L0744: 2, L0754: 2, L0745: 2, H0445: 2, H0583: 1, S0442: 1, H0580: 1, H0393: 1, H0549: 1, H0550: 1, H0587: 1, H0574: 1, H0632: 1, T0039: 1, L0021: 1, L0022: 1, H0036: 1, H0581: 1, S0324: 1, H0263: 1, H0204: 1, H0546: 1, H0199: 1, H0246: 1, H0355: 1, H0188: 1, H0288: 1, H0428: 1, H0604: 1, H0031: 1, H0617: 1, H0124: 1, S0036: 1, H0063: 1, H0059: 1, L0770: 1, L0646: 1, L0374: 1, L0764: 1, L0648: 1, L0521: 1, L0662: 1, L0651: 1, L0653: 1, L0606: 1, L0809: 1, H0660: 1, H0672: 1, S0328: 1, H0679: 1, S3014: 1, L0743: 1, L0750: 1, L0777: 1 and H0506: 1.	7		
1200	HKMMB79	746871	1210	1109 - 1222	3807	Gln-24 to Thr-35.	L0754: 9, L0766: 7, H0623: 6, L0748: 6, H0599: 5, L0471: 5, L0662: 4, S0027: 4, S0420:			

1201	HKMMC69	852206	1211	150 - 231	3808	Gly-23 to Arg-33.	3, H0431: 3, H0519: 3, L0740: 3, L0749: 3, L0777: 3, S0192: 3, H0542: 3, H0713: 2, H0717: 2, S0212: 2, S0001: 2, L0481: 2, S0442: 2, S0046: 2, S0476: 2, S0016: 2, H0013: 2, H0575: 2, H0050: 2, H0622: 2, H0412: 2, L0598: 2, L0655: 2, L0659: 2, L0565: 2, L0751: 2, L0747: 2, L0756: 2, L0731: 2, L0588: 2, L0591: 2, S0194: 2, H0423: 2, H0624: 1, H0171: 1, H0265: 1, S0040: 1, T0049: 1, H0650: 1, H0657: 1, H0662: 1, H0638: 1, T0008: 1, H0580: 1, H0393: 1, L0717: 1, S0222: 1, H0587: 1, H0333: 1, H0002: 1, S0346: 1, T0048: 1, H0318: 1, H0544: 1, H0545: 1, H0150: 1, H0567: 1, H0024: 1, H0373: 1, L0163: 1, H0266: 1, S0250: 1, H0031: 1, H0553: 1, H0644: 1, H0124: 1, S0366: 1, H0063: 1, H0087: 1, H0551: 1, H0413: 1, H0056: 1, T0041: 1, H0560: 1, H0509: 1, S0002: 1, H0529: 1, L0763: 1, L0771: 1, L0803: 1, L0774: 1, L0775: 1, L0805: 1, L0656: 1, L0809: 1, L0530: 1, L0666: 1, L0663: 1, H0693: 1, H0520: 1, H0521: 1, S0028: 1, L0757: 1, H0445: 1, S0242: 1, S0196: 1, L0462: 1 and H0293: 1. H0445: 6, H0255: 2, H0431: 1 and L3872: 1.
1202	HKMMD91	847394	1212	312 - 392	3809	Leu-19 to Asp-26.	L0748: 4, L0766: 3, L0438: 3, L0740: 3, L0756: 3, L0758: 3, S0242: 3, H0431: 2, L0598: 2, L0803: 2, H0435: 2, H0648: 2, L0439: 2, L0754: 2, L0731:

1203	HKMMP90	746876	1213	361 - 426	3810	Arg-3 to Gln-9.	2, L0757: 2, H0422: 2, H0170: 1, H0664: 1, S0354: 1, H0619: 1, S0300: 1, H0549: 1, H0013: 1, H0156: 1, S0010: 1, H0046: 1, H0123: 1, H0687: 1, S0003: 1, H0622: 1, T0023: 1, H0553: 1, H0674: 1, H0616: 1, H0551: 1, T0067: 1, H0494: 1, H0646: 1, UNKN: 1, H0529: 1, L0770: 1, L0637: 1, L0373: 1, L0765: 1, L0794: 1, L0804: 1, L0775: 1, L0784: 1, L0805: 1, L0776: 1, L0666: 1, L0664: 1, L0665: 1, H0520: 1, H0689: 1, H0684: 1, H0672: 1, S0152: 1, H0521: 1, S0406: 1, L0750: 1, L0759: 1, L0480: 1 and S0194: 1.		
1204	HKMMU76	690789	1214	228 - 395	3811		H0635: 3, H0261: 1, H0431: 1, S6028: 1, L0455: 1, L0766: 1, H0519: 1 and H0521: 1. L0749: 4, H0556: 3, H0124: 3, L0748: 3, L0743: 2, L0746: 2, L0777: 2, T0002: 1, S0470: 1, H0341: 1, S0418: 1, S0358: 1, H0261: 1, H0550: 1, H0431: 1, H0013: 1, H0635: 1, S0010: 1, H0024: 1, H0615: 1, H0673: 1, S0364: 1, L0455: 1, T0042: 1, H0633: 1, S0002: 1, S0426: 1, L0640: 1, L0639: 1, L0521: 1, L0794: 1, L0803: 1, L0650: 1, L0775: 1, L0606: 1, L0790: 1, H0547: 1, S0152: 1, L0439: 1, L0747: 1, L0780: 1, L0758: 1 and L0759: 1.		
1205	HKPAC10	527238	1215	126 - 164	3812		S0016: 1		
1206	HKPAC50	830367	1216	334 - 411	3813		AR089: 33, AR316: 25, AR060: 19 L0775: 8, L0005: 7, L0758:	9pter-p22.3	

1207	HKPMA08	608164	1217	181 - 294	3814	Met-1 to Gly-9.	7, L0752: 6, S0410: 5, S0440: 5, S0144: 5, H0659: 5, L0747: 5, H0341: 4, H0150: 4, S0422: 4, L0748: 4, L0740: 4, H0520: 3, L0755: 3, H0650: 2, S0045: 2, S0280: 2, H0599: 2, L0163: 2, H0038: 2, H0616: 2, S0344: 2, L0769: 2, L0521: 2, L0768: 2, L0375: 2, L0776: 2, L0790: 2, S0374: 2, S0126: 2, S0406: 2, L0754: 2, H0595: 2, T0002: 1, H0713: 1, H0656: 1, S0116: 1, S0212: 1, H0484: 1, H0664: 1, H0125: 1, S0356: 1, S0354: 1, S0358: 1, S0444: 1, S0360: 1, S0408: 1, H0637: 1, H0580: 1, S0300: 1, H0549: 1, S0222: 1, H0586: 1, H0587: 1, H0333: 1, H0156: 1, L0621: 1, S0346: 1, H0318: 1, H0581: 1, H0530: 1, L0471: 1, S0362: 1, H0051: 1, S0051: 1, H0375: 1, H0266: 1, H0213: 1, H0412: 1, S0112: 1, H0494: 1, H0512: 1, S0016: 1, S0438: 1, S0150: 1, H0529: 1, L0373: 1, L0764: 1, L0522: 1, L0655: 1, L0379: 1, L0665: 1, H0547: 1, H0684: 1, H0660: 1, S0328: 1, S0378: 1, H0522: 1, H0696: 1, H0134: 1, H0345: 1, S0027: 1, S0032: 1, L0744: 1, L0759: 1, S0031: 1, H0445: 1, H0668: 1, H0653: 1, S0242: 1, S0276: 1 and H0423: 1. H0616: 5, L0731: 3, H0453: 2, L0769: 2, L0766: 2, L0789: 2, S0028: 2, L0758: 2, L0604: 2, H0728: 1, S0308: 1, H0550: 1, H0587: 1, H0618: 1, S0010: 1, S0051: 1, H0334: 1, L0770:
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1208	HKTAC18	831292	1218	2010 - 2081	3815		1, L5565: 1, L0803: 1, H0689: 1, L0746: 1, L0747: 1, L0780: 1 and L0759: 1. L0750: 4, H0457: 3, L0521: 3, L0756: 3, H0373: 2, S0374: 2, H0638: 2, L0759: 2, S0001: 1, H0596: 1, H0567: 1, H0570: 1, H0239: 1, H0328: 1, H0673: 1, H0163: 1, H0063: 1, S0438: 1, L0763: 1, L0638: 1, L0642: 1, L0768: 1, L0766: 1, L0804: 1, L0631: 1, L0637: 1, L0639: 1, L0787: 1, L0666: 1, L0663: 1, H0520: 1, H0547: 1, H0690: 1, H0670: 1, S0380: 1, S0146: 1, L0754: 1, L0777: 1, L0731: 1 and L0757: 1.	125270, 125270, 128100, 137350, 191100, 215700, 223360, 268900, 601850
1209	HLISA89	839594	1219	1030 - 1086	3816		H0617: 10, L0748: 7, H0620: 6, L0752: 6, L0769: 5, L0768: 4, L0751: 4, L0731: 4, H0689: 3, L0439: 3, L0750: 3, S0420: 2, H0581: 2, H0012: 2, T0041: 2, L0771: 2, L0773: 2, L0662: 2, L0766: 2, L0774: 2, L0775: 2, L0776: 2, H0696: 2, L0754: 2, H0265: 1, H0657: 1, H0484: 1, H0255: 1, H0661: 1, S0418: 1, S0045: 1, H0393: 1, L0012: 1, H0574: 1, H0618: 1, H0196: 1, H0597: 1, H0327: 1, H0545: 1, H0009: 1, H0510: 1, S0022: 1, H0606: 1, H0087: 1, H0413: 1, H0207: 1, H0641: 1, H0633: 1, L0369: 1, L0763: 1, L0770: 1, L0772: 1, L0521: 1, L0375: 1, L0378: 1, L0806: 1, L0655: 1, L0783: 1, L0809: 1, L0665: 1, H0144: 1, L0438: 1, H0435: 1, H0670: 1, H0539: 1, H0555: 1, S0206: 1, L0741: 1, L0747: 1 and L0757: 1.	9q34

1210	HL2AB60	722226	1220	145 - 1296	3817	Arg-51 to His-60, Glu-134 to Gly-143, Leu-225 to Arg-231, Lys-242 to Pro-266, Asp-317 to Thr-322, Ser-352 to Gln-364, Arg-372 to Asp-383.	1, L0749; 1, L0786; 1, L0758; 1, S0192; 1 and L0698; 1.	2p13	203800, 602404
							AR238: 20, AR052: 18, AR089: 17, AR249: 16, AR060: 15, AR053: 15, AR039: 15, AR205: 15, AR316: 14, AR309: 14, AR244: 14, AR291: 14, AR194: 13, AR231: 13, AR312: 12, AR213: 12, AR313: 12, AR299: 12, AR310: 12, AR243: 11, AR202: 11, AR234: 11, AR265: 11, AR295: 11, AR246: 11, AR055: 11, AR206: 11, AR248: 11, AR292: 11, AR241: 11, AR247: 11, AR192: 10, AR253: 10, AR229: 10, AR183: 10, AR198: 10, AR186: 10, AR218: 10, AR280: 10, AR282: 10, AR315: 10, AR061: 10, AR285: 9, AR298: 9, AR263: 9, AR240: 9, AR033: 9, AR300: 9, AR271: 9, AR296: 9, AR275: 9, AR281: 9, AR268: 9, AR283: 9, AR096: 8, AR175: 8, AR274: 8, AR185: 8, AR104: 8, AR269: 8, AR293: 8, AR204: 8, AR277: 8, AR219: 8, AR237: 7, AR284: 7, AR184: 7, AR232: 7, AR314: 7, AR294: 7, AR270: 7, AR273: 7, AR266: 7, AR226: 7, AR177: 7, AR289: 7.		

0906

AR251: 6, AR256: 6, AR227: 6, AR290: 6, AR233: 6, AR286: 6, AR267: 6, AR182: 6, AR258: 5, AR259: 5, AR179: 4 L0769: 9, L0747: 9, L0754: 7, H0038: 6, L0748: 6, L0758: 6, H0265: 5, H0556: 5, L0665: 5, L0749: 5, L0757: 5, S0358: 4, H0181: 4, S0404: 4, S0406: 4, L0731: 4, S0408: 3, H0618: 3, H0046: 3, H0617: 3, L0766: 3, L0659: 3, L0666: 3, L0663: 3, H0547: 3, H0521: 3, L0743: 3, L0750: 3, L0755: 3, S0436: 3, L0591: 3, H0657: 2, H0656: 2, H0662: 2, S0418: 2, H0580: 2, H0619: 2, H0393: 2, H0486: 2, H0545: 2, H0083: 2, H0673: 2, H0135: 2, H0616: 2, H0413: 2, L0435: 2, H0561: 2, S0344: 2, H0695: 2, L0646: 2, L0497: 2, L0775: 2, L0806: 2, L0653: 2, L0655: 2, L0519: 2, H0435: 2, S0152: 2, H0134: 2, H0436: 2, S0027: 2, S0028: 2, L0745: 2, L0756: 2, L0779: 2, L0777: 2, L0752: 2, L0596: 2, L0588: 2, L0485: 2, L0608: 2, S0276: 2, H0543: 2, H0422: 2, S0040: 1, H0717: 1, H0650: 1, S0116: 1, H0341: 1, H0484: 1, H0483: 1, H0663: 1, H0305: 1, H0638: 1, H0125: 1, H0192: 1, S0356: 1, S0442: 1, S0354: 1, S0376: 1, S0360: 1, S0045: 1, S0132: 1, H0351: 1, S0222: 1, S6014: 1, H0357: 1, H0455: 1, H0586: 1, H0642: 1, H0559: 1, H0492:
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1211	HL3AE69	695734	1221	41 - 175	3818	Cys-26 to Asn-31.	<p>1, L0623: 1, H0250: 1, H0635: 1, H0575: 1, H0706: 1, H0421: 1, S0049: 1, H0052: 1, H0596: 1, H0597: 1, H0544: 1, L0041: 1, H0178: 1, H0172: 1, H0242: 1, L0471: 1, H0620: 1, H0024: 1, H0014: 1, S0362: 1, H0266: 1, H0271: 1, S0022: 1, H0428: 1, H0424: 1, H0644: 1, H0111: 1, S0366: 1, H0090: 1, H0634: 1, H0551: 1, H0412: 1, H0059: 1, S0038: 1, L0351: 1, T0041: 1, T0042: 1, H0494: 1, H0386: 1, S0440: 1, H0509: 1, H0131: 1, H0633: 1, S0422: 1, S0002: 1, L0369: 1, L0762: 1, L0640: 1, L0763: 1, L0637: 1, L0761: 1, L0642: 1, L0643: 1, L0764: 1, L0662: 1, L0363: 1, L0375: 1, L0379: 1, L0661: 1, L0657: 1, L0638: 1, L0783: 1, L0382: 1, L0809: 1, L0792: 1, L0565: 1, S0126: 1, H0689: 1, H0690: 1, H0683: 1, H0659: 1, H0658: 1, H0660: 1, S0330: 1, H0539: 1, S0380: 1, S0350: 1, S0037: 1, S3014: 1, L0744: 1, L0740: 1, L0759: 1, S0434: 1, L0594: 1, S0011: 1, H0423: 1 and H0506: 1.</p>		
							<p>AR060: 7, AR316: 7, AR089: 7, L0748: 9, L0157: 5, L0659: 5, L0747: 5, L0005: 3, L0764: 3, L0439: 3, L0740: 3, H0624: 2, S0212: 2, S0007: 2, S0010: 2, H0251: 2, H0132: 2, L0769: 2, L0794: 2, L0766: 2, L0805: 2, L0783: 2, L0789: 2, L0663: 2, L0665: 2, H0658: 2, H0521: 2.</p>		

1212	HL3AF32	753468	1222	281 - 394	3819	Glu-28 to Thr-37.	<p>2, L0742: 2, L0744: 2, L0745: 2, L0749: 2, L0752: 2, L0731: 2, L0758: 2, L0759: 2, S0424: 2, H0170: 1, S0134: 1, S0116: 1, S0001: 1, S0356: 1, S0358: 1, H0580: 1, H0351: 1, S6016: 1, H0587: 1, H0575: 1, H0421: 1, S0049: 1, H0052: 1, H0041: 1, H0009: 1, H0050: 1, L0471: 1, H0012: 1, H0024: 1, H0051: 1, T0010: 1, H0375: 1, H0099: 1, H0252: 1, H0615: 1, H0039: 1, L0142: 1, H0617: 1, H0674: 1, S0366: 1, H0135: 1, H0591: 1, H0100: 1, L0351: 1, H0625: 1, H0654: 1, S0344: 1, H0529: 1, L0770: 1, L3905: 1, L0761: 1, L0773: 1, L0662: 1, L0364: 1, L0776: 1, L0637: 1, L0636: 1, L0526: 1, L0532: 1, L0666: 1, H0724: 1, H0547: 1, H0660: 1, H0522: 1, S0406: 1, L0754: 1, L0777: 1 and H0008: 1.</p>
							<p>AR089: 10, AR316: 7, AR060: 4 L0748: 7, L0659: 3, L0747: 3, S0212: 2, S0010: 2, H0132: 2, L0764: 2, L0744: 2, L0752: 2, L0759: 2, S0424: 2, H0170: 1, S0116: 1, S0358: 1, S6016: 1, H0587: 1, H0575: 1, H0421: 1, H0041: 1, H0050: 1, L0471: 1, H0375: 1, H0615: 1, H0039: 1, H0674: 1, H0100: 1, H0625: 1, H0654: 1, H0529: 1, L0364: 1, L0636: 1, L0526: 1, L0783: 1, L0532: 1, L0663: 1, L0665: 1, H0724: 1, H0658: 1, H0660: 1, H0521: 1, H0522: 1, S0406: 1 and L0740: 1.</p>

1213	HLDAV70	623603	1223	38 - 127	3820	Thr-13 to Asn-23.	H0509: 1, S037/4: 1 and H0521: 1.			
1214	HLDBL62	899498	1224	372 - 743	3821	Glu-26 to Asn-36, Ser-43 to Arg-60, Pro-107 to Glu-116.	AR239: 420, AR231: 296, AR234: 148, AR238: 142, AR226: 142, AR061: 100, AR237: 96, AR230: 95, AR228: 83, AR227: 71, AR232: 65, AR229: 49, AR233: 43, AR267: 38, AR060: 37, AR216: 31, AR207: 28, AR254: 26, AR249: 25, AR268: 25, AR214: 25, AR316: 24, AR183: 21, AR269: 20, AR194: 20, AR215: 19, AR217: 19, AR246: 18, AR184: 18, AR206: 18, AR173: 17, AR243: 17, AR180: 17, AR290: 17, AR039: 16, AR197: 15, AR195: 15, AR270: 15, AR299: 14, AR281: 14, AR242: 13, AR202: 13, AR245: 12, AR244: 11, AR250: 11, AR247: 11, AR211: 11, AR175: 11, AR274: 10, AR177: 10, AR241: 10, AR182: 10, AR192: 10, AR263: 9, AR089: 9, AR310: 9, AR252: 9, AR251: 9, AR198: 9, AR174: 9, AR225: 9, AR172: 8, AR280: 8, AR204: 8, AR181: 8, AR289: 8, AR253: 8, AR265: 8, AR223: 8, AR284: 8, AR300: 8, AR169: 8, AR240: 8, AR205: 8, AR178: 8, AR275: 8,	7		

AR235: 8, AR190: 8, AR176: 7, AR222: 7, AR248: 7, AR266: 7, AR165: 7, AR162: 7, AR315: 7, AR161: 7, AR193: 7, AR201: 7, AR292: 7, AR168: 7, AR163: 7, AR164: 7, AR185: 7, AR096: 7, AR055: 7, AR298: 7, AR166: 7, AR224: 7, AR221: 7, AR291: 7, AR283: 6, AR196: 6, AR282: 6, AR271: 6, AR273: 6, AR277: 6, AR189: 6, AR033: 6, AR314: 6, AR264: 6, AR191: 6, AR295: 6, AR272: 6, AR171: 6, AR313: 6, AR288: 5, AR200: 5, AR186: 5, AR213: 5, AR311: 5, AR285: 5, AR212: 5, AR256: 5, AR312: 5, AR179: 5, AR297: 5, AR170: 4, AR052: 4, AR309: 4, AR053: 4, AR255: 4, AR286: 4, AR296: 4, AR308: 4, AR261: 4, AR104: 4, AR188: 4, AR203: 4, AR293: 4, AR236: 4, AR287: 4, AR294: 4, AR262: 3, AR199: 3, AR257: 3, AR258: 3, AR259: 3, AR210: 3, AR219: 3, AR218: 2, AR260: 2 S0410: 16, S0436: 10, L0748: 9, S0358: 7, S0438: 5,

1215	HLDBV18	805684	1225	1176 - 1298	3822		S0444: 3, H0574: 3, H0620: 3, H0509: 3, L0375: 3, L5286: 3, S0354: 2, S0360: 2, H0730: 2, H0722: 2, S0278: 2, H0431: 2, H0331: 2, H0632: 2, H0012: 2, H0031: 2, H0124: 2, H0038: 2, H0039: 2, S0440: 2, L0771: 2, L0648: 2, L0775: 2, L0805: 2, L0776: 2, L0747: 2, L0749: 2, L0731: 2, L0581: 2, L0778: 1, H0663: 1, H0402: 1, S0356: 1, S0376: 1, H0675: 1, H0619: 1, H0393: 1, H0550: 1, H0392: 1, H0486: 1, H0253: 1, H0231: 1, L0738: 1, H0546: 1, H0545: 1, H0050: 1, L0471: 1, H0355: 1, H0622: 1, H0644: 1, H0166: 1, H0090: 1, L0646: 1, L0644: 1, L0764: 1, L0364: 1, L0803: 1, L0774: 1, L0809: 1, L0792: 1, L0665: 1, H0684: 1, H0672: 1, H0696: 1, S0044: 1, S0406: 1, H0555: 1, L0743: 1, L0745: 1, L0779: 1, L0755: 1, S0031: 1, L0361: 1 and H0506: 1. AR060: 48, AR089: 47, AR316: 47 L0752: 9, L0731: 9, L0740: 8, L0769: 6, L0749: 6, L0766: 5, L0775: 5, L0747: 5, L0595: 5, S0418: 4, S0358: 4, L0764: 4, L0776: 4, L0748: 4, L0459: 4, L0757: 4, L0759: 4, H0556: 3, H0052: 3, H0050: 3, H0494: 3, L0771: 3, L0774: 3, L0666: 3, L0665: 3, S0328: 3, L0779: 3, L0596: 3, H0176: 2, S0408: 2, H0431: 2, H0592: 2, H0586: 2, H0013: 2, S0474: 2, H0178: 2, L0471: 2, H0292: 2, H0361:
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1216	HLDV54	570813	1226	147 - 371	3823	Ser-6 to Asp-12.	1, H0543: 1, H0008: 1 and H0352: 1. L0803: 5, L0770: 3, H0544: 2, L0641: 2, L0766: 2, L0659: 2, L0748: 2, L0747: 2, L0759: 2, L0590: 2, H0650: 1, S0280: 1, H0318: 1, H0024: 1, S0003: 1, L0055: 1, H0551: 1, L0564: 1, S0370: 1, H0509: 1, H0647: 1, L0373: 1, L0646: 1, L0644: 1, L0804: 1, L0650: 1, L0774: 1, L0658: 1, L0783: 1, S0330: 1, H0696: 1, L0779: 1, L0753: 1, L0593: 1 and H0542: 1.	
1217	HLCR26	852350	1227	759 - 890	3824	Pro-35 to Trp-40.	L0740: 12, S0422: 11, L0766: 8, L0803: 7, S0270: 7, L0771: 6, S0358: 5, H0580: 5, H0622: 5, S0440: 5, L0805: 5, L0758: 5, L0596: 5, H0581: 4, L0666: 4, S0434: 4, S0360: 3, L0761: 3, L0800: 3, L0809: 3, S0328: 3, S0406: 3, S0436: 3, S0354: 2, H0486: 2, H0318: 2, S0474: 2, S0003: 2, H0591: 2, H0264: 2, H0509: 2, H0641: 2, H0529: 2, L0763: 2, L0773: 2, L0375: 2, L0776: 2, L0655: 2, L0789: 2, L0664: 2, H0144: 2, L0602: 2, H0518: 2, H0521: 2, L0439: 2, L0754: 2, L0749: 2, L0779: 2, L0731: 2, L0759: 2, L0599: 2, L0362: 2, S0252: 1, H0222: 1, H0686: 1, H0713: 1, S0134: 1, H0656: 1, S0116: 1, H0638: 1, S0418: 1, S0420: 1, S0444: 1, S0408: 1, S0476: 1, H0619: 1, H0586: 1, H0497: 1, H0485: 1, T0114: 1, H0013: 1, H0075: 1, L0021: 1, H0575: 1, L0563: 1, H0251: 1, H0596: 1,	

1218	HLDDM27	850360	1228	169 - 372	3825	Cys-35 to Gly-40, Gly-45 to Tyr-53.	L0738: 1, H0023: 1, H0083: 1, S0214: 1, H0428: 1, L0483: 1, H0553: 1, H0169: 1, H0163: 1, H0090: 1, H0040: 1, H0616: 1, H0412: 1, H0413: 1, H0561: 1, S0370: 1, S0448: 1, S0438: 1, S0472: 1, H0632: 1, S0002: 1, L0598: 1, L0369: 1, L0770: 1, L0667: 1, L0642: 1, L0662: 1, L0794: 1, L0775: 1, L0784: 1, L0632: 1, L0628: 1, L0659: 1, H0702: 1, S0374: 1, H0520: 1, H0689: 1, H0690: 1, H0435: 1, H0638: 1, H0660: 1, H0539: 1, S0378: 1, S0152: 1, S0266: 1, S0264: 1, L0748: 1, L0731: 1, L0750: 1, L0756: 1, L0732: 1, S0308: 1, H0707: 1, L0588: 1, L0608: 1, S0026: 1, H0423: 1, H0506: 1 and H0721: 1.
							AR060: 44, AR316: 42, AR089: 39 L0601: 17, L0747: 11, H0255: 10, L0766: 9, L0439: 9, H0457: 8, L0659: 8, H0521: 8, H0543: 8, L0750: 7, L0731: 7, L0757: 7, H0052: 6, L0665: 6, H0012: 5, H0617: 5, L0763: 5, L0662: 5, L0666: 5, H0445: 5, H0656: 4, S0360: 4, H0549: 4, H0550: 4, H0050: 4, H0620: 4, H0551: 4, H0494: 4, L0646: 4, L0775: 4, L0663: 4, H0547: 4, H0660: 4, L0595: 4, H0650: 3, H0341: 3, H0484: 3, S0418: 3, H0580: 3, S0278: 3, H0575: 3, H0253: 3, H0318: 3, H0581: 3, H0251: 3, S0250: 3, H0039: 3, H0124: 3, H0063: 3, T0042: 3, S0210: 3, L0770: 3, L0769:

1219	HLDDM27	881984	1229	177 - 380	3826	Cys-35 to Gly-40, Gly-45 to Tyr-53.	<p>1, L0658: 1, L0382: 1, L0809: 1, H0519: 1, H0593: 1, H0689: 1, H0435: 1, H0672: 1, H0539: 1, H0696: 1, S0044: 1, H0436: 1, S0028: 1, L0741: 1, H0668: 1, H0653: 1, S0196: 1, S0424: 1, S0438: 1 and L0600: 1.</p> <p>AR060: 44, AR316: 42, AR089: 39 L0601: 17, L0747: 11, H0255: 10, L0766: 9, L0439: 9, H0457: 8, L0639: 8, H0521: 8, H0543: 8, L0750: 7, L0731: 7, L0757: 7, H0052: 6, L0665: 6, H0012: 5, H0617: 5, L0763: 5, L0662: 5, L0666: 5, H0445: 5, H0656: 4, S0360: 4, H0549: 4, H0550: 4, H0050: 4, H0620: 4, H0551: 4, H0494: 4, L0646: 4, L0775: 4, L0663: 4, H0547: 4, H0660: 4, L0595: 4, H0650: 3, H0341: 3, H0484: 3, S0418: 3, H0580: 3, S0278: 3, H0575: 3, H0253: 3, H0318: 3, H0581: 3, H0231: 3, S0250: 3, H0039: 3, H0124: 3, H0063: 3, T0042: 3, S0210: 3, L0770: 3, L0769: 3, L0761: 3, H0555: 3, L0751: 3, L0749: 3, L0593: 3, H0542: 3, H0423: 3, H0422: 3, H0225: 2, H0483: 2, S0358: 2, H0619: 2, L0717: 2, H0261: 2, H0370: 2, H0486: 2, H0250: 2, H0618: 2, H0545: 2, H0009: 2, L0471: 2, H0083: 2, H0286: 2, H0252: 2, H0135: 2, H0264: 2, H0509: 2, H0646: 2, L0638: 2, L0648: 2, L0767: 2, L0649: 2, L0774: 2, L0378: 2, L0653: 2, L0655: 2, L0783: 2, L0664: 2, L0565:</p>		
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1220	HLDNF18	821599	1230	197 - 586	3827	Phe-35 to Ala-46, Ser-80 to Asn-89.	2, H0518: 2, S0152: 2, S0206: 2, L0743: 2, L0748: 2, L0740: 2, L0758: 2, L0759: 2, H0707: 2, L0596: 2, L0605: 2, L0361: 2, S0192: 2, H0506: 2, H0265: 1, H0556: 1, H0224: 1, S0342: 1, H0716: 1, S0114: 1, H0657: 1, S0110: 1, S0001: 1, H0234: 1, H0663: 1, H0306: 1, H0125: 1, S0356: 1, S0376: 1, S0222: 1, H0441: 1, H0609: 1, H0586: 1, H0333: 1, H0427: 1, H0590: 1, S0049: 1, H0194: 1, H0544: 1, H0041: 1, H0024: 1, S0388: 1, H0067: 1, H0271: 1, H0687: 1, H0292: 1, H0615: 1, H0688: 1, H0428: 1, H0213: 1, H0628: 1, H0181: 1, H0068: 1, H0598: 1, H0090: 1, H0634: 1, H0087: 1, H0116: 1, T0067: 1, H0100: 1, T0041: 1, H0279: 1, H0334: 1, H0625: 1, H0561: 1, S0142: 1, S0422: 1, S0002: 1, S0426: 1, L0796: 1, L0639: 1, L0667: 1, L0800: 1, L0643: 1, L0773: 1, L0363: 1, L0803: 1, L0375: 1, L0634: 1, L0776: 1, L0657: 1, L0638: 1, L0382: 1, L0809: 1, H0519: 1, H0593: 1, H0689: 1, H0435: 1, H0672: 1, H0539: 1, H0696: 1, S0044: 1, H0436: 1, S0028: 1, L0741: 1, H0668: 1, H0653: 1, S0196: 1, S0424: 1, S0458: 1 and L0600: 1. AR060: 3, AR316: 2, AR089: 2 L0779: 7, L0741: 6, L0777: 6, L0751: 5, H0556: 4, L0776: 3, H0617: 2, L0803: 2, L0789: 2, S0126: 2, S0102: 2, L0745:	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
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1226	HLDXF43	514022	1236	28 - 183	3833		H0073: 1		
1227	HLEAA10	824265	1237	34 - 168	3834		H0073: 1 and S0032: 1.		
1228	HLEAA24	745383	1238	46 - 183	3835		L0748: 2, L0749: 2, H0024: 1 and H0051: 1.		
1229	HLHAE14	865625	1239	17 - 139	3836	Gly-25 to Asn-34.			
1230	HLHAE14	886763	1240	17 - 139	3837	Gly-25 to Asn-34.	L0748: 2, L0749: 2, H0024: 1 and H0051: 1.		
1231	HLHBS54	837503	1241	73 - 1101	3838	Glu-25 to Glu-36, Thr-51 to Asp-57, Leu-117 to Gly-129.	AR069: 17, AR316: 12, AR060: 9 L0751: 12, L0757: 9, L0595: 8, H0024: 6, S0002: 6, H0545: 5, L0740: 3, S0434: 3, H0620: 4, H0135: 4, S0426: 4, L0776: 4, L0639: 4, L0747: 4, L0750: 4, H0333: 3, H0046: 3, H0622: 3, H0087: 3, S0144: 3, L0770: 3, L0809: 3, S0152: 3, S0037: 3, L0754: 3, L0752: 3, S0001: 2, S0160: 2, S0007: 2, H0549: 2, S0222: 2, H0587: 2, H0632: 2, H0618: 2, H0309: 2, H0546: 2, H0050: 2, H0012: 2, H0266:		

1232	HLHCB33	638208	1242	9 - 176	3839	2, H0124: 2, H0413: 2, S0344: 2, L0769: 2, L0772: 2, L0648: 2, L0662: 2, L0517: 2, L0666: 2, L0664: 2, H0689: 2, H0521: 2, H0522: 2, H0696: 2, S0406: 2, L0743: 2, L0744: 2, L0749: 2, L0731: 2, L0589: 2, L0592: 2, L0593: 2, H0149: 1, S0116: 1, H0484: 1, H0255: 1, H0661: 1, H0662: 1, S0410: 1, S0045: 1, S0046: 1, H0619: 1, S0278: 1, H0437: 1, H0550: 1, H0441: 1, H0249: 1, H0427: 1, H0253: 1, H0052: 1, H0251: 1, H0597: 1, H0544: 1, L0041: 1, H0041: 1, H0009: 1, H0172: 1, H0566: 1, H0399: 1, H0239: 1, H0687: 1, H0288: 1, H0292: 1, T0023: 1, H0424: 1, H0213: 1, H0617: 1, H0673: 1, H0169: 1, H0376: 1, H0623: 1, S0210: 1, L0369: 1, L0762: 1, L0763: 1, L5565: 1, L0767: 1, L0803: 1, L0775: 1, L0523: 1, L0806: 1, L0655: 1, L0518: 1, L0783: 1, L0519: 1, L0796: 1, L0663: 1, S0148: 1, S0310: 1, H0547: 1, H0659: 1, H0651: 1, H0539: 1, H0555: 1, H0626: 1, S3014: 1, S0027: 1, L0748: 1, L0439: 1, L0777: 1, L0755: 1, L0758: 1, L0759: 1, L0603: 1, H0638: 1, S0196: 1, S0424: 1 and H0352: 1.		
						AR197: 6, AR192: 6, AR309: 5, AR176: 5, AR178: 4, AR242: 4, AR204: 4, AR221: 4, AR161: 4, AR246: 4, AR162: 4, AR163: 4, AR170: 4, AR253: 4.		

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ARI77: 4, AR201: 4, AR228: 3, AR266: 3, AR267: 3, AR271: 3, AR183: 3, AR269: 3, AR243: 3, AR165: 3, AR182: 3, AR283: 3, AR237: 3, AR233: 3, AR215: 3, AR270: 3, AR166: 3, AR164: 3, AR039: 3, AR250: 3, AR245: 3, AR217: 3, AR272: 3, AR247: 3, AR060: 3, AR229: 3, AR053: 3, AR175: 3, AR203: 2, AR239: 2, AR089: 2, AR257: 2, AR289: 2, AR261: 2, AR300: 2, AR185: 2, AR196: 2, AR238: 2, AR313: 2, AR061: 2, AR295: 2, AR282: 2, AR179: 2, AR316: 2, AR277: 2, AR227: 2, AR286: 2, AR230: 2, AR055: 2, AR226: 2, AR268: 2, AR274: 2, AR174: 2, AR255: 2, AR224: 2, AR231: 2, AR299: 2, AR104: 2, AR181: 2, AR191: 2, AR264: 2, AR288: 2, AR312: 2, AR173: 2, AR287: 2, AR236: 2, AR265: 2, AR297: 2, AR212: 2, AR296: 1, AR290: 1, AR262: 1, AR190: 1, AR205: 1, AR214: 1, AR240: 1, AR293: 1, AR311: 1, AR234: 1, AR171: 1,
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1233	HLHCF14	834846	1243	423 - 581	3840			AR291: 1, AR188: 1, AR096: 1, AR189: 1, AR200: 1, AR210: 1, AR033: 1, AR235: 1, AR256: 1, AR285: 1, S0404: 3, L0803: 2, H0686: 1, S0444: 1, H0024: 1, L0646: 1, L0662: 1, L0794: 1, L0649: 1, L0774: 1, L0789: 1, L0663: 1 and S0374: 1.		
1234	HLHCG24	847398	1244	140 - 295	3841	See 24 to Gln-32, Ile-38 to Cys-43.		AR060: 7, AR316: 6, AR089: 6 H0024: 2, L0749: 2, L0599: 2, L0663: 1, H0593: 1, L0748: 1 and L0780: 1. H0599: 5, H0295: 4, H0617: 4, L0769: 4, H0242: 3, L0748: 3, H0024: 2, L0655: 2, L0747: 2, L0756: 2, L0779: 2, L0757: 2, H0506: 2, H0265: 1, H0556: 1, H0341: 1, H0458: 1, S0356: 1, S0354: 1, S0046: 1, L0717: 1, H0441: 1, H0586: 1, H0013: 1, H0427: 1, H0156: 1, H0618: 1, L0157: 1, H0123: 1, H0650: 1, H0083: 1, H0687: 1, H0673: 1, H0708: 1, H0038: 1, H0634: 1, H0100: 1, H0560: 1, L0761: 1, L0764: 1, L0521: 1, L0382: 1, S0126: 1, H0689: 1, H0435: 1, H0658: 1, H0555: 1, S0014: 1, S0028: 1, L0740: 1, L0755: 1, L0758: 1, H0543: 1, H0423: 1 and S0456: 1.		
1235	HLHCH20	753464	1245	157 - 207	3842			AR089: 4, AR316: 4, AR060: 4 L0766: 7, L0748: 5, H0031: 4, L0751: 4, L0758: 4, H0024: 3, H0038: 3, L0776: 3, L0518: 3, L0745: 3, H0624: 2, H0265: 1	X	

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1236	HLHCN51	836150	1246	237 - 383	3843		L0171: 2, H0580: 1, H0208: 1, H0309: 1, H0024: 1, H0598: 1, L0754: 1 and H0422: 1.		
1237	HLHCT96	886178	1247	182 - 214	3844		AR089: 15, AR316: 11, AR060: 7, H0024: 38, H0123: 15, H0208: 5, H0209: 1, H0617: 1, H0264: 1 and L0386: 1.		
1238	HLHDC33	779499	1248	63 - 68	3845		AR316: 8, AR060: 8, AR089: 8, H0615: 2, H0580: 1, H0024: 1, H0428: 1, L0804: 1, H0670: 1, H0651: 1 and L0756: 1.	3q23-q24	106165, 110100, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 203500, 276902, 601199, 601199, 601199, 601682
1239	HLHDF92	846331	1249	515 - 613	3846	Pro-12 to Asp-17, Ser-25 to Gly-31.	AR089: 227, AR316: 185, AR060: 146, H0050: 21, H0024: 10, S0194: 6, H0144: 5, L0754: 5, H0619: 4, L0757: 4, S0276: 4, H0208: 3, H0352: 3, H0123: 2, H0081: 2, H0105: 2, H0620: 2, L0375: 2, L0743: 2, L0751: 2, L0779: 2, L0605: 2, H0008: 2, L0717: 1, H0013: 1, L0021: 1, H0309: 1, H0085: 1, H0231: 1.		

1240	HLHD105	841732	1250	73 - 138	3847	<p>H0041: 1, H0009: 1, H0019: 1, H0057: 1, S0250: 1, H0135: 1, H0163: 1, H0100: 1, L0764: 1, L0775: 1, L0777: 1, L0758: 1, L0759: 1 and S0192: 1.</p> <p>AR089: 27, AR316: 20, AR060: 14</p> <p>H0024: 1</p>		
1241	HLHDL37	847399	1251	94 - 117	3848	<p>AR089: 37, AR316: 34, AR060: 30</p> <p>H0024: 2</p>		
1242	HLHDL69	883335	1252	432 - 548	3849	<p>AR089: 14, AR316: 11, AR060: 9</p> <p>S0003: 7, H0046: 6, L0766: 5, L0731: 5, L0794: 4, L0805: 4, L0804: 3, L0748: 3, L0747: 3, L0777: 3, L0758: 3, H0556: 2, S0418: 2, S0442: 2, H0333: 2, H0331: 2, H0253: 2, L0598: 2, L0803: 2, L0775: 2, L0776: 2, L0789: 2, L0602: 2, S3014: 2, L0439: 2, L0749: 2, L0753: 2, L0608: 2, L0363: 2, S0040: 1, S0218: 1, H0583: 1, H0650: 1, H0636: 1, L0415: 1, H0720: 1, H0638: 1, S0354: 1, H0580: 1, H0250: 1, H0599: 1, H0618: 1, H0309: 1, T0110: 1, H0178: 1, H0123: 1, H0024: 1, H0428: 1, T0023: 1, L0483: 1, H0628: 1, H0316: 1, T0067: 1, H0488: 1, S0344: 1, H0538: 1, UNRWN: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0768: 1, L0375: 1, L0651: 1, L0806: 1, L0655: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, H0725: 1, S0328: 1, H0539: 1, H0521: 1, H0436: 1, S3012: 1, L0779: 1, L0757: 1, S0308: 1, L0591: 1,</p>	2p12-p11.2	147200, 178640, 216900

1243	HLHDL69	850691	1253	433 - 549	3850		1, L0599; 1, H0668; 1 and H0422: 1. AR089: 14, AR316: 11, AR060: 9 S0003: 7, H0046: 6, L0766: 5, L0731: 5, L0794: 4, L0805: 4, L0804: 3, L0748: 3, L0747: 3, L0777: 3, L0758: 3, H0556: 2, S0418: 2, S0442: 2, H0333: 2, H0331: 2, H0253: 2, L0598: 2, L0803: 2, L0775: 2, L0776: 2, L0789: 2, L0602: 2, S014: 2, L0439: 2, L0749: 2, L0753: 2, L0608: 2, L0362: 2, S0040: 1, S0218: 1, H0583: 1, H0650: 1, H0656: 1, L0415: 1, H0720: 1, H0638: 1, S0354: 1, H0580: 1, H0250: 1, H0599: 1, H0618: 1, H0309: 1, T0110: 1, H0178: 1, H0123: 1, H0024: 1, H0428: 1, T0023: 1, L0483: 1, H0628: 1, H0316: 1, T0067: 1, H0488: 1, S0344: 1, H0538: 1, UNKNWN: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0768: 1, L0375: 1, L0631: 1, L0806: 1, L0655: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, H0725: 1, S0328: 1, H0539: 1, H0521: 1, H0436: 1, S3012: 1, L0779: 1, L0757: 1, S0308: 1, L0591: 1, L0599: 1, H0668: 1 and H0422: 1.	2p12-p11.2	147200, 178640, 216900
1244	HLHDL69	843836	1254	433 - 549	3851		AR089: 14, AR316: 11, AR060: 9 S0003: 7, H0046: 6, L0766: 5, L0731: 5, L0794: 4, L0805: 4, L0804: 3, L0748: 3, L0747: 3, L0777: 3, L0758: 3, H0556: 2, S0418: 2, S0442: 2, H0333: 2, S0418: 2, S0442: 2, H0333: 2.	2p12-p11.2	147200, 178640, 216900

1245	HLHDL69	855906	1255	433 - 549	3852					2, H0331: 2, H0253: 2, L0598: 2, L0803: 2, L0775: 2, L0776: 2, L0789: 2, L0602: 2, S3014: 2, L0439: 2, L0749: 2, L0753: 2, L0608: 2, L0362: 2, S0040: 1, S0218: 1, H0583: 1, H0650: 1, H0636: 1, L0415: 1, H0720: 1, H0638: 1, S0354: 1, H0580: 1, H0250: 1, H0599: 1, H0618: 1, H0309: 1, T0110: 1, H0178: 1, H0123: 1, H0024: 1, H0428: 1, T0023: 1, L0483: 1, H0628: 1, H0316: 1, T0067: 1, H0488: 1, S0344: 1, H0538: 1, UNKNWN: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0768: 1, L0375: 1, L0651: 1, L0806: 1, L0655: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, H0725: 1, S0328: 1, H0539: 1, H0521: 1, H0436: 1, S3012: 1, L0779: 1, L0757: 1, S0308: 1, L0591: 1, L0599: 1, H0668: 1 and H0422: 1.	2p12-p11.2	147200, 178640, 216900
										AR089: 14, AR316: 11, AR060: 9 S0003: 7, H0046: 6, L0766: 5, L0731: 5, L0794: 4, L0805: 4, L0804: 3, L0748: 3, L0747: 3, L0777: 3, L0758: 3, H0556: 2, S0418: 2, S0442: 2, H0333: 2, H0331: 2, H0253: 2, L0598: 2, L0803: 2, L0775: 2, L0776: 2, L0789: 2, L0602: 2, S3014: 2, L0439: 2, L0749: 2, L0753: 2, L0608: 2, L0362: 2, S0040: 1, S0218: 1, H0583: 1, H0650: 1, H0636: 1, S0354: 1, H0580: 1, H0250: 1, H0599: 1, H0618: 1.		

1246	HLHDM38	566843	1256	282 - 407	3853	Pro-20 to Gly-33, Pro-36 to Lys-41.	L0748: 8, L0777: 8, L0766: 6, L0439: 4, H0457: 3, L0749: 3, L0586: 2, L0655: 2, L0744: 2, L0779: 2, L0758: 2, L0599: 2, S0218: 1, H0583: 1, S0360: 1, H0024: 1, H0616: 1, S0426: 1, L0794: 1, L0774: 1, L0375: 1, L0663: 1, H0518: 1, L0747: 1, L0750: 1, L0756: 1, L0780: 1 and H0423: 1.	2p23.3-q14.3	176830, 176830, 182601, 229800, 602134
1247	HLHDR92	692150	1257	157 - 204	3854		AR089: 20, AR316: 15, AR060: 11 H0024: 2, H0208: 1 and S0222: 1.		
1248	HLHDY94	847121	1258	153 - 335	3855	Arg-18 to Ile-23, Ala-31 to Glu-45.	AR089: 5, AK316: 5, H0551: 8, S0126: 5, S0250: 4, H0617: 3, S0420: 2, H0587: 2, H0559: 2, H0544: 2, H0024: 2, H0124: 2, H0059: 2, S0390: 2, S0028: 2, H0543: 2, S0040: 1, S0212: 1, H0661: 1, H0638: 1, S0418: 1, S0356: 1, S0442: 1, H0549: 1, H0550: 1, H0333: 1, H0486: 1, T0040: 1, L0021: 1.		

1249	HLHBE27	815512	1259	1260 - 1445	3856		<p>1, H0575: 1, H0618: 1, H0253: 1, T0048: 1, H0318: 1, S0049: 1, H0545: 1, H0086: 1, H0123: 1, H0057: 1, H0266: 1, H0252: 1, H0135: 1, H0616: 1, H0087: 1, H0100: 1, H0494: 1, L0770: 1, L5575: 1, L0773: 1, L0809: 1, H0144: 1, H0519: 1, H0684: 1, H0670: 1, H0539: 1, S0037: 1, L0744: 1, L0747: 1, L0750: 1, L0731: 1, L0757: 1 and S0242: 1.</p> <p>AR089: 8, AR316: 7, AR060: 7 L0748: 12, L0747: 11, S0358: 10, L0766: 8, L0794: 6, L0740: 6, L0779: 6, H0556: 5, L0803: 5, L0749: 5, H0266: 4, L0743: 4, L0744: 4, L0758: 4, H0624: 3, H0265: 3, L0776: 3, S0404: 3, S3014: 3, L0752: 3, L0731: 3, L0599: 3, H0661: 2, L0005: 2, S0360: 2, H0580: 2, S0046: 2, H0645: 2, H0013: 2, H0599: 2, H0024: 2, H0644: 2, H0634: 2, L0646: 2, L0764: 2, L0527: 2, L0789: 2, L0665: 2, H0144: 2, H0690: 2, H0658: 2, L0750: 2, H0445: 2, L0605: 2, L0601: 2, S0342: 1, H0713: 1, H0717: 1, S0114: 1, S0282: 1, H0125: 1, S0356: 1, S0376: 1, S0045: 1, S0476: 1, H0619: 1, H0393: 1, H0261: 1, H0370: 1, H0592: 1, H0586: 1, H0574: 1, T0109: 1, H0250: 1, H0427: 1, H0575: 1, H0036: 1, S0010: 1, H0318: 1, H0196: 1, H0052: 1, H0309: 1, H0263: 1, H0544: 1, H0457: 1, H0050: 1, H0051:</p>
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1250	HLHEE38	824064	1260	270 - 323	3857			1, S0024: 1, H0179: 1, S0003: 1, H0673: 1, H0674: 1, H0212: 1, H0124: 1, S0366: 1, H0135: 1, H0551: 1, T0067: 1, H0264: 1, H0413: 1, H0641: 1, L0769: 1, L0637: 1, L0761: 1, L0667: 1, L0648: 1, L0521: 1, L0662: 1, L0767: 1, L0774: 1, L0775: 1, L0805: 1, L0655: 1, L0513: 1, L0659: 1, L0517: 1, L0647: 1, L0787: 1, L0666: 1, L0663: 1, S0428: 1, H0547: 1, H0519: 1, H0689: 1, H0435: 1, H0670: 1, H0539: 1, S0152: 1, L0777: 1, L0755: 1, L0757: 1, S0436: 1, S0276: 1 and H0543: 1.	
								AR060: 5, AR316: 4, AR089: 2, S0040: L0439: 3, S0346: 2, S0040: 1, H0024: 1 and L0612: 1.	
1251	HLHEI72	874180	1261	89 - 326	3858	Val-75 to Asp-82.		AR313: 8, AR055: 7, AR052: 7, AR241: 6, AR312: 6, AR061: 5, AR053: 5, AR089: 5, AR184: 5, AR060: 5, AR296: 5, AR269: 5, AR270: 5, AR267: 5, AR282: 5, AR299: 4, AR182: 4, AR186: 4, AR263: 4, AR309: 4, AR247: 4, AR293: 4, AR213: 4, AR033: 4, AR310: 4, AR248: 4, AR266: 4, AR253: 4, AR185: 4, AR096: 4, AR265: 4, AR233: 4, AR298: 4, AR286: 4, AR238: 4, AR316: 4, AR104: 4, AR177: 3, AR251: 3, AR300: 3.	

1252	HLHEX62	608285	1262	23 - 187	3859	Leu-25 to Gly-32.		AR285: 3, AR292: 3, AR273: 3, AR290: 3, AR294: 3, AR204: 3, AR198: 3, AR277: 3, AR271: 3, AR283: 3, AR295: 3, AR226: 3, AR289: 3, AR268: 3, AR243: 3, AR237: 3, AR229: 3, AR232: 3, AR192: 3, AR274: 3, AR284: 3, AR249: 3, AR291: 2, AR275: 2, AR231: 2, AR240: 2, AR246: 2, AR234: 2, AR183: 2, AR039: 2, AR202: 2, AR175: 2, AR244: 2, AR179: 2, AR315: 2, AR258: 1, AR218: 1, AR219: 1, AR205: 1, AR206: 1, AR256: 1 H0024: 1, S0206: 1 and S0026: 1.			
1253	HLHFK59	581065	1263	220 - 300	3860			H0024: 2, H0333: 1, H0575: 1, S0015: 1, L0662: 1, L0754: 1, H0445: 1 and L0605: 1.			
1254	HLHFP09	805967	1264	133 - 228	3861			H0024: 1, S0374: 1 and L0779: 1.	20q13.1-q13.2	118504, 118504, 131242, 139320, 139320, 139320, 139320, 256540, 600281, 600281, 602025	

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1255	HLHGG78	638210	1265	461 - 532	3862						150270, 248611, 601690

1256	HLHSG15	668247	1266	1368 - 1556	3863	Pro-25 to Arg-34, Ser-42 to Phe-48.				3, L0754: 3, L0756: 3, L0779: 3, H0140: 2, S0346: 2, L0051: 2, S0426: 2, L0803: 2, L0783: 2, L0745: 2, L0747: 2, L0755: 2, L0759: 2, S0218: 1, H0657: 1, S0282: 1, S0376: 1, S0360: 1, H0580: 1, S0045: 1, S0046: 1, H0392: 1, H0497: 1, H0635: 1, H0575: 1, S0010: 1, S0049: 1, H0251: 1, H0123: 1, L0471: 1, H0024: 1, L0055: 1, H0124: 1, H0531: 1, H0412: 1, H0560: 1, H0561: 1, S0002: 1, L0763: 1, L0772: 1, L0374: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0805: 1, L0782: 1, L0382: 1, L0664: 1, S0126: 1, H0659: 1, H0522: 1, S0044: 1, S012: 1, L0439: 1, L0740: 1, S0260: 1, L0608: 1, L0604: 1 and L0366: 1.	8p22	148370, 238600, 238600, 238600, 238600, 600143, 601385, 602629

1257	HLHSQ35	570814	1267	39 - 119	3864			H0581: 1, L0738: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, H0014: 1, T0010: 1, H0328: 1, H0039: 1, H0032: 1, S0036: 1, H0412: 1, H0623: 1, L0598: 1, L0520: 1, L0762: 1, L0763: 1, L0667: 1, L0372: 1, L0646: 1, L0771: 1, L0521: 1, L0766: 1, L0804: 1, L0651: 1, L0789: 1, L0792: 1, S0216: 1, H0144: 1, H0659: 1, H0670: 1, H0521: 1, S0044: 1, S0206: 1, S0032: 1, L0750: 1, L0779: 1, L0753: 1, L0758: 1, H0444: 1, L0588: 1, L0592: 1, H0665: 1, H0542: 1, H0543: 1 and H0506: 1.		
1258	HLHTB92	815305	1268	162 - 275	3865			H0208: 2 AR060: 6, AR316: 5, AR089: 4 H0208: 2, H0024: 2 and H0318: 1.		
1259	HLHTP55	847322	1269	161 - 292	3866			H0519: 2, S0116: 1, H0208: 1, S0010: 1, H0581: 1, S0366: 1, L0794: 1, S0378: 1 and H0136: 1.		
1260	HLIBD74	604914	1270	127 - 339	3867		Pro-2 to His-7, Ser-30 to Trp-36, Leu-59 to Ser-64.	H0355: 1		
1261	HLIBE41	772762	1271	198 - 299	3868			L0803: 3, L0804: 2, L0779: 2, L0758: 2, H0632: 1, H0057: 1, H0355: 1, H0551: 1, L0766: 1, L0776: 1, L0517: 1, L0666: 1, S0044: 1 and L0747: 1.		
1262	HLIBO16	780805	1272	467 - 538	3869			AR060: 16, AR316: 9, AR089: 1 H0355: 1, L0803: 1, L0804: 1, L0651: 1 and S0216: 1.	6q24.1-q25.1 133430, 133430, 180020, 600320, 600883	
1263	HLJB122	658741	1273	416 - 592	3870		Ser-41 to Gln-48.	AR316: 2, AR089: 2, AR060: 2	16	

1264	HLJEE16	847326	1274	38 - 124	3871	Gln-17 to Gly-22.	<p> H0556: 6, H0657: 6, L0761: 5, L0794: 5, L0655: 4, L0748: 4, L0777: 4, H0656: 3, H0634: 3, H0264: 3, L0731: 3, H0423: 3, H0140: 2, H0575: 2, H0318: 2, L0771: 2, L0766: 2, L0803: 2, S0374: 2, L0756: 2, H0422: 2, H0170: 1, H0265: 1, H0583: 1, H0650: 1, L0785: 1, S0116: 1, H0662: 1, S0358: 1, L0717: 1, H0486: 1, H0036: 1, H0581: 1, L0738: 1, H0050: 1, H0510: 1, H0375: 1, H0660: 1, H0090: 1, H0560: 1, H0641: 1, S0142: 1, S0002: 1, S0426: 1, L0772: 1, L0643: 1, L0764: 1, L0768: 1, L0387: 1, L0804: 1, L0775: 1, L0806: 1, L0653: 1, L0790: 1, L0664: 1, H0660: 1, H0518: 1, L0749: 1, L0759: 1 and H0445: 1. </p>	7q21.1-q31.1	<p> 126650, 126650, 129900, 150240, 154276, 171050, 171060, 180105, 222800, 246900, 602136, 602136, 602136, 602447 </p>
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1265	HLLAX64	827292	1275	282 - 380	3872	1, L0771: 1, L0773: 1, L0662: 1, L0768: 1, L0655: 1, L0665: 1, H0682: 1, H0696: 1, H0478: 1, L0749: 1, L0780: 1, L0759: 1 and H0422: 1. AR089: 3, AR316: 3, AR060: 2 L0740: 8, L0749: 7, L0748: 5, L0752: 4, L0588: 4, L0774: 3, L0757: 3, L0759: 3, S0358: 2, L0773: 2, L0804: 2, L0775: 2, L0776: 2, L0783: 2, L0809: 2, L0666: 2, L0751: 2, L0750: 2, L0779: 2, S0040: 1, S0420: 1, S0376: 1, H0580: 1, H0415: 1, H0036: 1, S0346: 1, H0581: 1, T0110: 1, H0597: 1, H0530: 1, H0546: 1, H0123: 1, H0083: 1, H0354: 1, H0510: 1, H0090: 1, T0069: 1, H0560: 1, S0210: 1, L0763: 1, L0637: 1, L0772: 1, L0646: 1, L0800: 1, L0771: 1, L0662: 1, L0805: 1, L0659: 1, L0789: 1, H0691: 1, H0521: 1, H0576: 1, H0478: 1, H0626: 1, L0747: 1, L0777: 1, L0731: 1, H0444: 1, L0590: 1, L0592: 1, S0242: 1 and S0196: 1.			
1266	HLLAX95	588405	1276	99 - 239	3873	AR089: 41, AR316: 29, AR060: 18, H0370: 1 and H0354: 1.			
1267	HLLCD67	822855	1277	237 - 311	3874	AR248: 102, AR251: 90, AR253: 53, AR205: 42, AR194: 38, AR039: 35, AR249: 35, AR282: 33, AR246: 30, AR202: 29, AR281: 24, AR241: 24, AR206: 24, AR315: 23, AR244: 22, AR299: 22, AR089: 22, AR243: 22,			

102160' 28005660

1268	HLMBX89	762967	1278	249 - 347	3875	<p>AR192: 22, AR204: 20, AR300: 19, AR314: 19, AR271: 19, AR213: 19, AR198: 18, AR280: 18, AR316: 17, AR096: 17, AR283: 16, AR033: 15, AR310: 14, AR053: 14, AR240: 14, AR232: 13, AR313: 13, AR060: 13, AR265: 13, AR284: 13, AR270: 12, AR266: 12, AR275: 12, AR104: 12, AR295: 12, AR177: 12, AR052: 11, AR277: 11, AR247: 11, AR285: 10, AR291: 10, AR263: 10, AR273: 10, AR229: 10, AR290: 9, AR296: 9, AR289: 9, AR309: 9, AR274: 9, AR286: 9, AR312: 8, AR268: 8, AR226: 8, AR185: 8, AR238: 8, AR055: 8, AR175: 8, AR183: 8, AR231: 7, AR292: 7, AR269: 7, AR218: 7, AR234: 7, AR293: 7, AR298: 7, AR186: 7, AR184: 7, AR182: 6, AR237: 6, AR267: 6, AR258: 6, AR219: 6, AR227: 6, AR233: 6, AR294: 6, AR256: 6, AR179: 5, AR259: 4, AR061: 4 H0354: 1 L0766: 11, L0748: 10, L0666: 7, H0046: 6, L0731: 6, H0543: 6, H0619: 5, L0805: 5, L0776: 5, L0771: 5, L0752: 5,</p>		
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1269	HLMBZ14	591271	1279	160 - 327	3876	Phc-25 to Pro-31.	H0436: 1, L0750: 1, L0779: 1, L0755: 1, S0031: 1, H0445: 1, S0436: 1, L0608: 1, H0136: 1, S0242: 1, S0276: 1, H0542: 1, H0422: 1, S0458: 1 and H0506: 1.		
1270	HLMCT51	772579	1280	63 - 92	3877		AR060: 6, AR316: 4, AR089: 2 H0255: 2 and L0589: 1.		
1271	HLMCT95	570815	1281	195 - 347	3878		AR089: 17, AR316: 13, AR060: 10 L0794: 2, H0254: 1, H0305: 1, H0618: 1, H0038: 1, L0609: 1 and H0423: 1.		
							L0731: 21, L0747: 17, L0776: 16, L0748: 14, L0777: 14, L0752: 13, L0755: 13, L0769: 11, L0750: 11, L0766: 10, L0806: 8, L0770: 7, H0556: 5, L0599: 5, L0774: 4, L0756: 4, L0779: 4, L0753: 4, H0341: 3, L0761: 3, L0764: 3, L0771: 3, L0809: 3, H0144: 3, L0743: 3, L0754: 3, L0757: 3, H0265: 2, S0134: 2, H0306: 2, H0402: 2, H0580: 2, H0393: 2, H0369: 2, H0441: 2, H0013: 2, H0024: 2, H0051: 2, H0687: 2, H0031: 2, H0644: 2, H0135: 2, L0763: 2, L0662: 2, L0768: 2, L0794: 2, L0803: 2, L0775: 2, L0783: 2, H0521: 2, L0759: 2, L0587: 2, L0591: 2, L0603: 2, S0114: 1, S0218: 1, H0483: 1, H0254: 1, H0663: 1, S0046: 1, H0440: 1, H0411: 1, H0550: 1, H0370: 1, H0333: 1, H0574: 1, T0039: 1, H0036: 1, H0545: 1, H0150: 1, H0083: 1, H0399: 1, H0355: 1, H0179: 1, H0271: 1.		

1272	HLMDD65	566891	1282	183 - 287	3879	Lys-27 to Ser-34.	<p>H0615: 1, H0622: 1, T0006: 1, H0553: 1, H0166: 1, H0169: 1, H0674: 1, L0456: 1, S0036: 1, H0040: 1, H0634: 1, H0100: 1, H0500: 1, H0633: 1, H0695: 1, L0762: 1, L0640: 1, L0796: 1, L0641: 1, L0648: 1, L0767: 1, L0805: 1, L0606: 1, L0657: 1, L0659: 1, L0528: 1, L0532: 1, L0664: 1, L0665: 1, S0052: 1, S0330: 1, S0027: 1, L0740: 1, L0745: 1, L0749: 1, L0758: 1, H0445: 1, L0608: 1, L0595: 1, L0601: 1, S0242: 1, S0276: 1, H0542: 1, H0543: 1, H0423: 1, H0506: 1 and L0600: 1.</p>		
							<p>H0423: 16, H0521: 11, L0777: 10, H0622: 9, L0751: 9, H0641: 8, H0518: 8, L0596: 8, H0265: 7, H0039: 6, L0740: 6, H0543: 6, T0049: 5, L0770: 5, L0665: 5, L0757: 5, H0422: 5, H0556: 4, H0255: 4, H0046: 4, H0435: 4, L0731: 4, L0599: 4, H0254: 3, H0271: 3, H0090: 3, L0794: 3, L0766: 3, S0328: 3, H0522: 3, S0260: 3, H0224: 2, H0225: 2, H0713: 2, S0029: 2, S0376: 2, S0360: 2, S0132: 2, H0087: 2, H0494: 2, L0662: 2, L0806: 2, L0382: 2, L0438: 2, H0689: 2, H0670: 2, H0660: 2, L0748: 2, L0779: 2, S0436: 2, H0506: 2, T0002: 1, H0220: 1, H0159: 1, H0717: 1, S0114: 1, L0785: 1, H0341: 1, S0110: 1, H0671: 1, H0663: 1, H0402: 1, S0356: 1, S0358: 1, H0675: 1, H0676: 1, S0408: 1, H0722: 1, H0282: 1, H0632: 1, H0635: 1.</p>		

1273	HLMDH01	721522	1283	71 - 244	3880			1, H0427: 1, H0575: 1, S0010: 1, S0346: 1, S0474: 1, H0581: 1, H0251: 1, H0544: 1, L0163: 1, H0051: 1, S0388: 1, H0188: 1, H0687: 1, H0286: 1, T0023: 1, H0604: 1, H0644: 1, H0181: 1, H0617: 1, H0032: 1, H0040: 1, H0634: 1, H0272: 1, H0509: 1, S0142: 1, L0763: 1, L0638: 1, L0372: 1, L0646: 1, L0771: 1, L0774: 1, L0805: 1, L0653: 1, L0776: 1, L0635: 1, L0636: 1, L0782: 1, L0663: 1, H0701: 1, H0690: 1, H0684: 1, H0658: 1, H0666: 1, S0152: 1, S0406: 1, H0555: 1, L0439: 1, L0747: 1, L0749: 1, L0750: 1, L0780: 1, L0755: 1, L0758: 1, S0031: 1, H0445: 1, S0434: 1, L0604: 1 and H0542: 1.		
1274	HLMDU23	668248	1284	21 - 239	3881	Leu-49 to Ser-57.		H0254: 1 and H0543: 1.		
1275	HLMPB62	604915	1285	268 - 315	3882			H0254: 2		
1276	HLMPG52	602166	1286	185 - 256	3883			H0255: 1		
1277	HLMPU53	801936	1287	520 - 699	3884	Ala-3 to Gly-10, Pro-23 to Gly-28, Cys-54 to Pro-59.		H0457: 8, L0751: 6, H0639: 4, H0617: 3, L0761: 3, L0794: 3, L0743: 3, L0749: 3, H0657: 2, H0549: 2, H0486: 2, L0764: 2, L0766: 2, L0655: 2, H0682: 2, H0521: 2, H0522: 2, L0744: 2, L0591: 2, H0543: 2, H0265: 1, T0049: 1, S0134: 1, H0650: 1, S0116: 1, H0255: 1, H0638: 1, S0358: 1, S0376: 1, H0637: 1, H0580: 1, S0045: 1, H0587: 1, T0060: 1, H0042: 1, H0575: 1, H0318: 1, H0581: 1, H0052: 1, H0061: 1, H0266: 1, H0416: 1, L0055: 1, H0068: 1, H0090: 1.		

1278	HLMHG68	580850	1288	141 - 401	3885	Met-1 to Pro-6, Thr-55 to Ala-65, Pro-67 to Cys-75.	1, H0551: 1, H0413: 1, H0494: 1, S0142: 1, H0538: 1, S0002: 1, H0695: 1, L0770: 1, L0769: 1, L0775: 1, L0776: 1, L0657: 1, L0666: 1, L0664: 1, H0703: 1, H0658: 1, H0670: 1, H0648: 1, H0539: 1, S0378: 1, L0779: 1, L0731: 1, L0601: 1 and H0423: 1.	20	
							AR202: 36, AR205: 31, AR281: 30, AR246: 30, AR194: 28, AR198: 26, AR039: 26, AR243: 25, AR273: 24, AR295: 22, AR274: 21, AR033: 20, AR089: 20, AR280: 20, AR055: 20, AR299: 19, AR241: 19, AR315: 19, AR271: 19, AR192: 18, AR060: 18, AR310: 18, AR312: 18, AR282: 18, AR283: 18, AR309: 18, AR316: 18, AR275: 18, AR300: 17, AR314: 17, AR052: 17, AR313: 17, AR293: 17, AR247: 17, AR294: 16, AR277: 16, AR218: 16, AR183: 16, AR186: 16, AR096: 16, AR177: 16, AR292: 15, AR263: 15, AR104: 15, AR213: 15, AR053: 15, AR219: 14, AR185: 14, AR251: 14, AR265: 14, AR234: 14, AR240: 13, AR175: 13, AR253: 13, AR226: 13, AR269: 12, AR238: 11, AR061: 11, AR248: 10, AR237: 10, AR270: 10, AR235: 10,		

1279	HLMHN06	853606	1289	21 - 80	3886		AR286: 10, AR268: 10, AR284: 9, AR256: 9, AR232: 9, AR249: 9, AR289: 9, AR285: 9, AR206: 9, AR184: 9, AR266: 8, AR182: 8, AR229: 8, AR296: 7, AR298: 7, AR204: 7, AR231: 7, AR291: 7, AR290: 6, AR267: 6, AR179: 6, AR259: 6, AR258: 5, AR244: 5, AR227: 2 L0751: 6, L0783: 4, H0672: 4, L0805: 2, L0752: 2, L0758: 2, H0657: 1, H0255: 1, H0638: 1, S0418: 1, S0442: 1, H0351: 1, H0587: 1, H0256: 1, L0623: 1, H0014: 1, H0051: 1, S0388: 1, H0688: 1, H0428: 1, H0424: 1, H0213: 1, H0401: 1, H0111: 1, H0617: 1, H0163: 1, H0063: 1, H0551: 1, T0041: 1, S0002: 1, L0764: 1, L0648: 1, L0662: 1, L0650: 1, L0774: 1, L0523: 1, L0378: 1, L0655: 1, L4501: 1, H0690: 1, H0659: 1, H0658: 1, H0521: 1, H0436: 1, L0777: 1 and L0601: 1.		
1280	HLMHS15	638212	1290	271 - 372	3887	Pro-14 to Gln-20.	H0255: 2, H0200: 1, H0163: 1 and L0766: 1 AR089: 9, AR316: 8, AR060: 8 H0255: 3	17p13.2	
1281	HLMIM84	588487	1291	124 - 270	3888		L0769: 7, L0748: 4, L0759: 4, H0556: 3, H0038: 3, L0750: 3, S0356: 2, H0574: 2, L0163: 2, L0766: 2, L0776: 2, L0663: 2, L0752: 2, L0755: 2, L0731: 2, L0599: 2, H0254: 1, H0255:	2p24.3-p11.2	178640, 216900, 602134

1282	HLMIN52	590735	1292	100 - 162	3889			1, H0306: 1, H0125: 1, S0376: 1, H0580: 1, H0455: 1, H0497: 1, H0331: 1, L0021: 1, H0004: 1, H0618: 1, S0010: 1, H0546: 1, H0545: 1, H0123: 1, H0081: 1, H0578: 1, H0051: 1, H0510: 1, H0188: 1, H0032: 1, H0169: 1, H0040: 1, T0042: 1, L0475: 1, H0560: 1, S0438: 1, H0132: 1, L0770: 1, L0372: 1, L0764: 1, L0771: 1, L0774: 1, L0809: 1, L0665: 1, L0438: 1, H0547: 1, H0435: 1, S0028: 1, L0439: 1, L0740: 1, L0779: 1, L0757: 1, L0758: 1, L0588: 1, L0605: 1, S0192: 1 and S0276: 1.	
								L0769: 5, S0045: 2, L0773: 2, L0775: 2, L0783: 2, L0809: 2, H0657: 1, H0341: 1, H0254: 1, H0255: 1, S0360: 1, H0208: 1, H0550: 1, H0052: 1, H0123: 1, H0673: 1, H0412: 1, H0413: 1, L0640: 1, L0763: 1, L0768: 1, L0794: 1, L0661: 1, L0665: 1, L0691: 1, H0690: 1, S0378: 1, H0521: 1, L0750: 1, L0777: 1, L0759: 1, S0436: 1, L0366: 1, S0242: 1 and S0424: 1.	
1283	HLMIQ83	688050	1293	38 - 334	3890		Met-1 to Asp-7, Pro-35 to Asn-43, Leu-46 to Ile-51, Tyr-77 to Trp-92.	H0255: 3, H0234: 2, H0306: 1, H0436: 1, L0439: 1, H0445: 1 and H0422: 1.	
1284	HLMIW76	570816	1294	137 - 202	3891			H0255: 1	
1285	HLMMIA65	780102	1295	131 - 163	3892			AR089: 24 and H0625: 1.	
1286	HLMMT12	805448	1296	295 - 411	3893			AR060: 13 H0255: 2, H0596: 1 and H0521: 1.	
1287	HLMNA19	826530	1297	445 - 624	3894		Gln-15 to Trp-24.	H0394: 1, H0255: 1 and	

1288	HLQAD72	853613	1298	142 - 567	3895	<p>Ser-20 to Gly-25, His-36 to Cys-47, Ile-84 to Lys-90, Cys-103 to Arg-110.</p>	<p>H0266: 1. AR089: 18, AR316: 12, AR060: 5 L0748: 15, H0574: 8, L0731: 8, S0358: 7, H0427: 4, L0775: 4, L0755: 4, L0777: 3, H0632: 2, H0188: 2, H0628: 2, L0803: 2, L0774: 2, L0666: 2, S0374: 2, L0740: 2, L0750: 2, S0434: 2, L0581: 2, L0599: 2, H0583: 1, H0662: 1, H0580: 1, H0645: 1, H0369: 1, H0587: 1, H0331: 1, T0060: 1, S0280: 1, H0349: 1, H0575: 1, H0052: 1, H0251: 1, H0309: 1, H0596: 1, L0738: 1, H0545: 1, H0046: 1, H0050: 1, H0024: 1, H0355: 1, S0336: 1, H0687: 1, H0031: 1, H0553: 1, S0366: 1, H0598: 1, H0059: 1, S0464: 1, S0438: 1, H0646: 1, L0762: 1, L0645: 1, L0773: 1, L0659: 1, L0518: 1, L0783: 1, L0809: 1, L0529: 1, H0521: 1, H0478: 1, S014: 1, L0756: 1, L0779: 1, L0752: 1, L0758: 1 and S0192: 1.</p>		
1289	HLQAM30	609880	1299	28 - 234	3896	<p>Arg-7 to Lys-12.</p>	<p>H0556: 26, H0124: 7, H0265: 5, S0476: 5, L0591: 5, H0032: 4, L0662: 4, H0521: 4, H0171: 3, S0134: 3, S0354: 3, H0575: 3, H0050: 3, H0271: 3, H0031: 3, H0644: 3, H0135: 3, L0659: 3, H0539: 3, S0014: 3, L0751: 3, L0750: 3, L0757: 3, L0596: 3, L0605: 3, H0542: 3, H0543: 3, H0422: 3, S0040: 2, S0442: 2, S0132: 2, H0431: 2, H0599: 2, H0036: 2, H0545: 2, H0123: 2, H0024: 2, H0375: 2, H0594: 2, H0328: 2, H0264: 2, H0059:</p>		

						2, T0041: 2, L0775: 2, L0543: 2, S0374: 2, H0435: 2, H0658: 2, S0380: 2, H0436: 2, S0027: 2, L0777: 2, L0755: 2, S0436: 2, L0592: 2, L0581: 2, L0594: 2, L0362: 2, H0423: 2, H0159: 1, H0716: 1, H0295: 1, T0049: 1, H0583: 1, H0656: 1, S0116: 1, S0212: 1, S0358: 1, S0360: 1, S0046: 1, H0619: 1, H0393: 1, S0016: 1, H0409: 1, H0586: 1, H0497: 1, H0331: 1, H0574: 1, H0486: 1, T0039: 1, H0013: 1, H0635: 1, H0427: 1, H0002: 1, T0082: 1, S0010: 1, H0318: 1, S0474: 1, H0581: 1, H0242: 1, H0014: 1, H0373: 1, H0051: 1, H0275: 1, H0355: 1, S0028: 1, H0179: 1, H0416: 1, S0022: 1, H0252: 1, L0483: 1, H0166: 1, H0169: 1, H0674: 1, L0455: 1, S0036: 1, H0090: 1, H0591: 1, H0038: 1, H0634: 1, H0063: 1, H0551: 1, T0067: 1, H0623: 1, S0038: 1, H0366: 1, S0440: 1, H0509: 1, S0150: 1, H0641: 1, H0652: 1, S0002: 1, S0426: 1, L5565: 1, L0372: 1, L0642: 1, L0764: 1, L0766: 1, L0652: 1, L0527: 1, L0663: 1, H0660: 1, H0666: 1, S0328: 1, S0332: 1, H0522: 1, H0696: 1, S0044: 1, L0748: 1, L0745: 1, L0756: 1, L0779: 1, L0758: 1, L0759: 1, H0445: 1, L0608: 1, L0595: 1, S0106: 1 and H0506: 1.		
1290	HLQAM59	560662	1300	268 - 318	3897	AR089: 22, AR316: 16, AR060: 11 H0331: 1		
1291	HLQBR23	745364	1301	568 - 657	3898	AR089: 15, AR316: 13,		

1292	HLQBF05	604916	1302	95 - 193	3899		AR060: 11 L0748: 36, L0754: 15, L0749: 7, L0438: 5, L0439: 4, S0436: 4, H0574: 3, L0794: 3, S0222: 2, S0010: 2, L0769: 2, L0772: 2, H0662: 1, S0356: 1, S0354: 1, S0358: 1, S0360: 1, H0722: 1, H0261: 1, H0331: 1, S0049: 1, H0052: 1, H0178: 1, H0057: 1, H0051: 1, S6028: 1, H0030: 1, H0553: 1, L0142: 1, L0456: 1, L0351: 1, S0438: 1, L0764: 1, L0806: 1, L4501: 1, L0741: 1, L0744: 1, L0779: 1, L0777: 1, L0755: 1, L0731: 1 and L0758: 1.		
1293	HLQBX64	772803	1303	810 - 857	3900		H0331: 1 and H0059: 1, S0438: 30, L0581: 11, L0775: 10, L0666: 10, H0722: 8, L0804: 7, L0665: 7, L0362: 6, H0331: 4, H0574: 4, H0670: 4, L0754: 4, L0755: 4, L0766: 3, L0664: 3, H0015: 2, H0355: 2, H0510: 2, S0440: 2, L0794: 2, L0657: 2, H0689: 2, H0658: 2, H0672: 2, L0439: 2, L0751: 2, S0412: 2, H0685: 1, S0040: 1, H0638: 1, H0393: 1, H0642: 1, H0632: 1, H0635: 1, H0042: 1, H0318: 1, H0014: 1, S0003: 1, H0252: 1, H0615: 1, H0039: 1, H0714: 1, H0633: 1, L0762: 1, L0803: 1, L0774: 1, L0655: 1, L0527: 1, L0659: 1, L0647: 1, L0788: 1, L0663: 1, H0519: 1, H0593: 1, H0682: 1, H0659: 1, H0666: 1, H0648: 1, S0330: 1, S0404: 1, L0744: 1, L0748: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, S0436: 1, L0595: 1.		

1294	HLQC109	745384	1304	120 - 338	3901	Asp-34 to Arg-40, Phe-45 to Ser-62. Gln-20 to Gln-28.	H0574: 1 and S0436: 1.		
1295	HLQCZ43	608174	1305	377 - 490	3902		L0777: 9, L0663: 4, L0748: 4, L0803: 3, H0485: 2, L0598: 2, L0770: 2, L0804: 2, S0378: 2, L0747: 2, L0731: 2, H0624: 1, H0619: 1, H0574: 1, H0599: 1, H0622: 1, H0644: 1, H0032: 1, H0623: 1, L0764: 1, L0767: 1, L0629: 1, L0659: 1, L0787: 1, L0664: 1, H0659: 1, L0749: 1, L0779: 1, L0780: 1, L0755: 1 and L0593: 1.		
1296	HLQCZ80	787112	1306	327 - 404	3903		S0438: 7, H0574: 5, H0510: 5, L0748: 4, L0749: 2, H0331: 1, H0632: 1, L0021: 1, H0714: 1, S0440: 1, H0509: 1, S0436: 1 and L0581: 1.	4q21-q24	104500, 125490, 147790, 157147, 173910, 248510, 252500, 252500
1297	HLQDK45	621414	1307	95 - 187	3904	Pro-20 to Leu-28.	L0783: 2, H0574: 1, L0664: 1 and H0506: 1.	8p12-p11	152760, 173370, 180100, 185430, 270800, 277700
1298	HLQDM47	743237	1308	115 - 315	3905	Gln-34 to Tyr-45.	H0574: 1	15q22	102578, 109700, 151670, 154550, 601780
1299	HLQDU77	607495	1309	181 - 393	3906	Ala-39 to Gln-44, Thr-50 to Ser-63.	L0517: 3, H0687: 2, L0747: 2, H0392: 1, H0574: 1, H0156: 1, S0050: 1, H0644: 1, L0763: 1, L0767: 1, L0766: 1, L0749: 1, L0756: 1, L0777: 1, L0752: 1, L0731: 1, L0759: 1 and S0192: 1.		
1300	HLSD72	588406	1310	113 - 205	3907		AR089: 21, AR316: 17, AR060: 13 H0540: 1		
1301	HLTCJ67	567284	1311	246 - 308	3908		H0090: 1 and L0779: 1.		
1302	HLTCM28	612810	1312	99 - 155	3909		AR310: 7, AR312: 7, AR055: 6, AR053: 6, AR052: 6, AR204: 6.		

1303	HLTCO22	780428	1313	758-886	3910	Thr-36 to Asn-41.	AR246: 6, AR061: 5, AR309: 5, AR182: 5, AR265: 5, AR185: 5, AR269: 4, AR186: 4, AR060: 4, AR299: 4, AR206: 4, AR247: 4, AR213: 3, AR273: 3, AR096: 3, AR290: 3, AR184: 3, AR275: 3, AR277: 3, AR300: 3, AR270: 3, AR198: 3, AR033: 3, AR253: 3, AR251: 3, AR316: 3, AR296: 3, AR192: 3, AR282: 3, AR313: 3, AR283: 3, AR295: 3, AR274: 3, AR175: 3, AR286: 2, AR293: 2, AR289: 2, AR089: 2, AR292: 2, AR298: 2, AR285: 2, AR263: 2, AR268: 2, AR227: 2, AR039: 2, AR205: 2, AR294: 2, AR284: 2, AR237: 2, AR238: 2, AR291: 1, AR183: 1, AR104: 1, AR259: 1, AR232: 1, AR240: 1, AR233: 1, AR267: 1, AR226: 1, AR177: 1, AR258: 1, AR243: 1, AR231: 1 L0763: 3, H0090: 2, T0002: 1, H0485: 1, H0063: 1, H0649: 1, L0655: 1 and H0422: 1.
							L0766: 4, L0742: 4, L0794: 3, L0759: 3, L0005: 2, S0422: 2, L0756: 2, L0731: 2, S0276: 2, H0422: 2, S0040: 1, H0728: 1, H0733: 1, H0586: 1, H0486:

1304	HLTDA14	804545	1314	99 - 251	3911			1, S0388: 1, S0003: 1, H0615: 1, H0039: 1, H0090: 1, H0059: 1, H0560: 1, L0637: 1, L0646: 1, L0648: 1, L0649: 1, L0803: 1, L0806: 1, L0805: 1, L0776: 1, L0659: 1, L0666: 1, H0144: 1, H0539: 1, L0779: 1, L0596: 1, S0192: 1 and H0423: 1.		
1305	HLTDC26	732137	1315	120 - 233	3912			H0090: 1 L0740: 9, L0766: 4, L0758: 4, H0521: 3, L0749: 3, H0581: 2, H0271: 2, L0754: 2, L0755: 2, S0114: 1, H0583: 1, L0785: 1, S0278: 1, H0375: 1, H0421: 1, S0388: 1, H0375: 1, S0003: 1, S0214: 1, T0006: 1, H0090: 1, H0641: 1, S0426: 1, L0770: 1, L0803: 1, L0607: 1, L0541: 1, H0522: 1, L0750: 1, L0599: 1 and H0543: 1.	9	
1306	HLTDC26	859069	1316	120 - 233	3913			L0740: 9, L0766: 4, L0758: 4, H0521: 3, L0749: 3, H0581: 2, H0271: 2, L0754: 2, L0755: 2, S0114: 1, H0583: 1, L0785: 1, S0278: 1, H0375: 1, H0421: 1, S0388: 1, H0375: 1, S0003: 1, S0214: 1, T0006: 1, H0090: 1, H0641: 1, S0426: 1, L0770: 1, L0803: 1, L0607: 1, L0541: 1, H0522: 1, L0750: 1, L0599: 1 and H0543: 1.	9	
1307	HLTDI20	610269	1317	520 - 636	3914			AR089: 10, AR316: 9, AR060: 7 H0423: 13, L0794: 8, H0422: 8, H0090: 7, H0543: 7, H0555: 6, H0641: 5, H0486: 4, H0581: 4, H0622: 4, H0521: 4, L0439: 4, L0747: 4, L0777: 4, H0657: 3, S0442: 3, S0354: 3, S0222: 3, H0135: 3, H0560: 3, L0665: 3.	17	

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1308	HLTD65	740756	1318	127 - 231	3915		S0196: 1. AR089: 12, AR316: 9, AE060: 6 H0090: 1		
1309	HLTDK30	834810	1319	761 - 1183	3916	Tyr-31 to Trp-37, Glu-87 to Trp-95.	AR060: 4, AR316: 4, AR089: 3 L0439: 5, L0747: 5, L0731: 4, L0499: 2, L0774: 2, L0805: 2, L0665: 2, L0438: 2, L0743: 2, L0744: 2, L0757: 2, L0759: 2, H0556: 1, H0713: 1, H0583: 1, S0045: 1, H0587: 1, H0486: 1, H0599: 1, H0581: 1, H0530: 1, H0544: 1, H0163: 1, H0090: 1, H0100: 1, L0770: 1, L5566: 1, L0364: 1, L0649: 1, L0803: 1, L0659: 1, L0809: 1, L0789: 1, L0352: 1, S0380: 1, L0749: 1, L0750: 1, L0758: 1, L0581: 1 and H0667: 1.		
1310	HLTDL37	638213	1320	55 - 90	3917		S0212: 8, S0126: 8, H0644: 7, L0803: 7, S0242: 7, S0358: 5, H0031: 5, H0551: 5, L0770: 3, L0794: 5, H0436: 5, L0439: 5, L0759: 5, L0717: 4, H0552: 4, L0662: 4, L0438: 4, H0547: 4, H0521: 4, L0747: 4, L0731: 4, H0685: 3, S0360: 3, H0318: 3, H0083: 3, H0553: 3, H0561: 3, L0646: 3, L0768: 3, L0657: 3, H0539: 3, L0740: 3, L0755: 3, S0031: 3, S0196: 3, S0040: 2, H0656: 2, H0341: 2, H0254: 2, S0420: 2, S0046: 2, S0222: 2, H0370: 2, T0039: 2, H0156: 2, H0599: 2, H0581: 2, H0421: 2, H0545: 2, H0620: 2, H0024: 2, H0014: 2, H0510: 2, S0250: 2, S0003: 2, H0039: 2, H0622: 2, H0412: 2, H0494: 2, H0560:		7

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1313	HLTEL84	782094	1323	88 - 183	3920		1, L0803: 1, L0774: 1, L0776: 1, L0666: 1, H0520: 1, S0126: 1, H0689: 1, L0750: 1, L0759: 1, S0026: 1, H0653: 1 and S0412: 1.		
1314	HLTEL39	853615	1324	210 - 215	3921		L0662: 2, L0751: 2, L0591: 2, H0265: 1, S0358: 1, H0331: 1, H0486: 1, H0286: 1, H0644: 1, H0090: 1, H0100: 1, S0142: 1, L0638: 1, L0648: 1, L0666: 1, L0748: 1 and S0398: 1.		
1315	HLTEN11	772547	1325	122 - 193	3922	Met-1 to Asn-7.	AR089: 12, AR316: 9, AR060: 8 L0663: 2, H0373: 1, H0090: 1, S0422: 1, L0763: 1, S0052: 1, L0740: 1, L0749: 1 and L0779: 1.	3p25.3-p24.1	193300, 193300, 227646, 601154
							AR089: 12, AR316: 12, AR060: 12 L0766: 10, L0439: 10, L0748: 7, L0805: 6, L0745: 6, H0031: 4, L0438: 4, L0747: 4, L0758: 4, S0412: 4, H0587: 3, H0013: 3, H0052: 3, L0662: 3, L0803: 3, L0756: 3, S0007: 2, H0208: 2, H0619: 2, H0050: 2, L0794: 2, L0649: 2, L0791: 2, L0792: 2, S0378: 2, L0742: 2, L0596: 2, L0599: 2, H0656: 1, S0116: 1, S0001: 1, S0420: 1, S0376: 1, S0360: 1, H0574: 1, H0486: 1, H0156: 1, H0036: 1, S0010: 1, H0024: 1, H0328: 1, H0688: 1, T0023: 1, T0006: 1, H0644: 1, L0143: 1, H0090: 1, H0264: 1, S0002: 1, L0762: 1, L0763: 1, L0770: 1, L0638: 1, L0637: 1, L0764: 1, L0804: 1, L0776: 1, L0606: 1, L0659: 1, L0809: 1, L0666: 1, L0663: 1.		

									S0148: 1, H0659: 1, S0330: 1, S0044: 1, L0751: 1, L0750: 1, L0779: 1, L0752: 1, L0759: 1, L0595: 1, S0106: 1, S0026: 1 and S0194: 1.			
1316	HLTJW52	663148	1326	251 - 358	3923				H0090: 1			
1317	HLTJZ36	821676	1327	218 - 247	3924				L0748: 5, H0556: 3, H0553: 3, H0090: 2, H0667: 2, H0265: 1, S0132: 1, H0331: 1, H0574: 1, H0013: 1, H0042: 1, H0581: 1, H0012: 1, H0014: 1, H0510: 1, H0030: 1, H0144: 1 and L0749: 1.			
1318	HLTGG14	824068	1328	229 - 297	3925				AR089: 10, AR316: 10, AR060: 9 H0591: 155, L0748: 6, H0521: 4, L0759: 4, S0426: 3, S0344: 2, H0144: 2, L0744: 2, L0439: 2, H0716: 1, H0295: 1, H0255: 1, H0305: 1, H0638: 1, S0045: 1, H0411: 1, S0278: 1, H0549: 1, H0156: 1, H0230: 1, H0309: 1, H0544: 1, L0157: 1, S0051: 1, L0483: 1, S0364: 1, H0189: 1, H0413: 1, T0069: 1, S0422: 1, S0002: 1, L0369: 1, L0796: 1, L0794: 1, L0775: 1, L0666: 1, H0519: 1, H0659: 1, S3014: 1, L0749: 1, H0595: 1, S0436: 1, L0584: 1, L0592: 1, S0011: 1 and H0423: 1.			
1319	HLUAF94	794116	1329	257 - 268	3926				H0318: 1 and H0342: 1.			
1320	HLWAH33	855954	1330	117 - 230	3927			Gly-20 to Lys-29.	L0754: 43, L0748: 16, H0553: 15, L0755: 8, H0030: 4, L0142: 4, L0603: 4, H0031: 2, H0644: 2, H0100: 1 and L0777: 1.	9q33.1		268900
1321	HLWAO11	885339	1331	63 - 194	3928				AR216: 16, AR177: 15, AR183: 15, AR269: 15,			

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1322	HLWAW73	664491	1332	676 - 834	3929	Ala-22 to Gly-28.	<p>AR198: 3, AR308: 3, AR231: 3, AR253: 3, AR283: 3, AR166: 3, AR287: 3, AR285: 3, AR236: 2, AR185: 2, AR197: 2, AR271: 2, AR039: 2, AR033: 2, AR234: 2, AR239: 2, AR282: 2, AR286: 2, AR243: 2, AR232: 2, AR230: 2, AR293: 2, AR200: 2, AR257: 2, AR104: 2, AR227: 2, AR296: 1, AR061: 1, AR294: 1, AR258: 1, AR260: 1, AR237: 1, AR226: 1, AR229: 1, L0754: 14, L0777: 13, H0553: 10, L0600: 7, L0748: 6, H0717: 5, H0713: 4, L0803: 4, L0749: 4, UNKWN: 4, H0624: 3, S0280: 3, L0565: 3, S0126: 3, L0747: 3, S0212: 2, S0282: 2, H0024: 2, H0030: 2, H0031: 2, H0040: 2, L0438: 2, S0028: 2, L0743: 2, L0596: 2, L0603: 2, H0270: 1, H0244: 1, H0427: 1, H0251: 1, H0309: 1, S0338: 1, S0340: 1, S0250: 1, H0252: 1, H0039: 1, L0143: 1, H0038: 1, L0659: 1, H0593: 1, H0684: 1, H0518: 1, S0390: 1, S0260: 1 and H0506: 1. L0439: 15, H0556: 12, H0266: 11, L0755: 9, L0731: 9, H0264: 8, L0766: 8, H0521: 8, L0752: 8, H0634: 7, S0028: 7, H0012: 6, L0748: 6, L0758: 6, L0666: 5, L0754: 5, S0360: 4, H0623: 4, L0665: 4, L0740:</p>
							<p>17p13.2</p>

1323	HLWAX50	809004	1333	178 - 297	3930				1, L0598: 1, L0638: 1, L5575: 1, L0761: 1, L0372: 1, L0768: 1, L0649: 1, L0560: 1, L0386: 1, L0775: 1, L0806: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0379: 1, L0807: 1, L0659: 1, L0517: 1, L0518: 1, L0783: 1, L0809: 1, L0519: 1, L0647: 1, L0789: 1, L0790: 1, L0663: 1, L0547: 1, H0684: 1, H0435: 1, H0670: 1, H0648: 1, H0672: 1, S0404: 1, H0478: 1, S0390: 1, S0027: 1, S0032: 1, L0743: 1, L0744: 1, L0757: 1, L0759: 1, H0707: 1, S0434: 1, H0136: 1, S0196: 1, H0542: 1, H0423: 1, H0422: 1 and H0293: 1.	10q26.3	263700
1324	HLWB03	840369	1334	46 - 264	3931	Thr-66 to Lys-72.			L0439: 5, H0624: 4, H0052: 3, H0553: 3, L0761: 2, L0803: 2, L0657: 2, L0756: 2, L0758: 2, H0583: 1, H0656: 1, H0208: 1, H0253: 1, H0009: 1, H0012: 1, H0015: 1, S0051: 1, H0428: 1, H0641: 1, H0529: 1, L0769: 1, L0772: 1, L0794: 1, L0804: 1, L0775: 1, L0530: 1, L0789: 1, L0791: 1, L0665: 1, H0658: 1, H0555: 1 and L0747: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040
1325	HLWBK16	638217	1335	492 - 527	3932				AR060: 2, AR316: 1, S0045: 1, H0369: 1, H0587: 1, H0553: 1, L0550: 1, L0553: 1 and L0523: 1.	3p14.3	150250, 164500, 277730, 600971, 601226
1326	HLWCC11	847401	1336	73 - 168	3933	Gly-2 to Lys-10.			H0670: 2, H0553: 1 and L0438: 1.		

1327	HLYA181	559150	1337	254 - 274	3934			H0445: 1		
1328	HLYA192	607801	1338	211 - 309	3935			H0445: 1		
1329	HLYA179	608289	1339	162 - 263	3936		Gln-28 to Phe-33.			
1330	HLYA128	567421	1340	404 - 565	3937			AR060: 2, AR316: 2, AR089: 1 H0445: 1		
1331	HLYA130	781249	1341	562 - 852	3938		Ala-2 to Arg-10, Arg-77 to Arg-97.	AR089: 13, AR316: 10, AR060: 7 L0759: 4, L0657: 3, L0789: 3, L0439: 3, L0752: 3, L0758: 3, S0360: 2, L0805: 2, L0438: 2, L0750: 2, L0777: 2, H0423: 2, H0171: 1, H0638: 1, H0351: 1, H0178: 1, H0606: 1, L0625: 1, L0769: 1, L0771: 1, L0662: 1, L0794: 1, L0803: 1, L0804: 1, L0650: 1, L0774: 1, L0659: 1, L0809: 1, L0663: 1, H0436: 1, L0748: 1, L0740: 1, H0445: 1, L0604: 1 and H0422: 1.		
1332	HLYA154	581067	1342	195 - 263	3939			H0589: 1, L0761: 1, H0445: 1 and H0423: 1.		
1333	HLYBC81	588490	1343	89 - 112	3940			AR089: 11, AR316: 7, AR060: 4 S0040: 1, H0553: 1, L0803: 1 and H0445: 1.		
1334	HLYBD09	610019	1344	90 - 182	3941			H0445: 1		
1335	HLYBL67	834538	1345	497 - 586	3942			AR089: 3, AR316: 2, AR060: 1 H0445: 1 and L0097: 1.		
1336	HLYBM38	608154	1346	223 - 339	3943			S0408: 4, H0657: 1, L0770: 1, L0775: 1 and H0445: 1.		
1337	HLYBN23	667995	1347	324 - 344	3944			AR089: 18, AR316: 12,		

1338	HL YBN71	604785	1348	237 - 341	3945	Pro-21 to Ser-27.	AR060: 7 H0306: 1, H0402: 1, H0271: 1, H0695: 1, L0667: 1, L0662: 1, H0445: 1 and H0422: 1.		
1339	HL YBS25	726713	1349	48 - 152	3946	Ser-20 to Phe-25.	H0445: 1		
1340	HL YBT28	608152	1350	245 - 346	3947		L0766: 5, H0663: 1, H0574: 1, H0581: 1, L0667: 1, L0642: 1, L0768: 1, L0779: 1, L0771: 1 and H0445: 1.		
1341	HL YBU15	598901	1351	369 - 584	3948		H0445: 1	6	
1342	HL YBY04	596819	1352	188 - 250	3949		H0445: 1		
1343	HL YCE15	621407	1353	22 - 129	3950		S0422: 3, H0339: 1, H0444: 1 and H0445: 1.		
1344	HL YCH04	608295	1354	49 - 150	3951	Gln-17 to Thr-29.	H0445: 1		
1345	HL YCY48	607489	1355	296 - 445	3952		H0445: 1		
1346	HL YDE38	735987	1356	180 - 272	3953		H0445: 2 and L0523: 1.		
1347	HL YDG55	835625	1357	220 - 309	3954		H0445: 1		
1348	HL YDO73	584787	1358	233 - 271	3955		H0445: 1		
1349	HL YEA60	685469	1359	427 - 672	3956	Met-34 to Ser-39, Leu-44 to Cys-49.	AR089: 5, AR316: 3, AR060: 2 L0748: 6, L0747: 5, L0005: 4, L0766: 4, L0142: 3, L0740: 3, L0749: 3, L0779: 3, H0318: 2, S0003: 2, L0769: 2, L0777: 2, L0752: 2, L0757: 2, H0664: 1, S0222: 1, H0431: 1, H0331: 1, H0156: 1, H0596: 1, S6028: 1, S0314: 1, H0615: 1, L0143: 1, L0055: 1, T0041: 1, L0369: 1, L0662: 1, L0794: 1, L0804: 1, L0775: 1, L0527: 1, L0666: 1, L0665: 1, H0144: 1, H0672: 1, H0522: 1, L0731: 1, L0758: 1, H0445: 1, S0394: 1, L0608: 1, S0192: 1, H0543: 1 and L0697: 1.		
1350	HL YEI14	853362	1360	94 - 1656	3957	Asn-39 to Gln-47, Asp-99 to Val-105.	AR248: 15, AR249: 6, AR096: 6, AR183: 5.	6q23-q24	107470, 107470, 107470, 121014.

1351	HLYE44	838149	1361	124 - 237	3958	Cys-31 to Leu-37.	Pro-109 to Gly-117, Gly-141 to Gly-157, Val-190 to Gln-195, Val-332 to Phe-337, Gly-392 to Trp-399, Val-465 to Ser-470.	AR310: 4, AR184: 4, AR246: 3, AR270: 3, AR229: 3, AR234: 3, AR312: 2, AR253: 2, AR237: 2, AR238: 2, AR313: 2, AR053: 2, AR284: 2, AR290: 2, AR226: 2, AR192: 2, AR213: 2, AR292: 1, AR247: 1, AR268: 1, AR293: 1, AR231: 1, AR052: 1, AR316: 1, AR294: 1, AR295: 1, AR240: 1, AR309: 1, AR282: 1 L0655: 3, S0052: 3, H0657: 2, H0656: 2, L0766: 2, S0436: 2, H0583: 1, H0305: 1, H0411: 1, H0004: 1, H0581: 1, H0421: 1, H0629: 1, H0179: 1, H0169: 1, L0387: 1, L0775: 1, L0652: 1, L0659: 1, S0428: 1, H0660: 1, H0445: 1 and H0595: 1.	AR060: 7, AR316: 5, AR089: 1 L0803: 7, L0794: 6, H0617: 5, L0759: 5, H0722: 2, H0550: 2, H0581: 2, H0135: 2, L0774: 2, H0543: 2, S0444: 1, H0559: 1, H0253: 1, H0046: 1, H0083: 1, H0087: 1, T0041: 1, T0042: 1, H0529: 1, L0761: 1, L0643: 1, L0766: 1, L0657: 1, L0659: 1, L0791: 1, H0520: 1, S0378: 1, S0406: 1, L0611: 1, L0749: 1, H0445: 1 and H0506: 1.	142470, 156225, 164200, 164200, 207800, 254780, 600320, 601316, 601410, 601757, 602067
1352	HLYE051	607815	1362	20 - 127	3959					
1353	HLYG19	826334	1363	2789 - 2929	3960	Gln-26 to Lys-47.		AR089: 8, AR316: 6, AR060: 4 L0756: 6, L0455: 5, L0752: 1, H0445: 1		

1354	HMAK52	853363	1364	235 - 375	3961	Ser-20 to Gly-25	5, L0757: 5, H0457: 4, L0770: 4, L0769: 4, L0655: 4, L0731: 4, H0686: 3, H0581: 3, L0659: 3, L0666: 3, H0658: 3, L0747: 3, L0749: 3, H0445: 3, L0588: 3, H0542: 3, H0251: 2, H0546: 2, H0413: 2, L0772: 2, L0794: 2, L0652: 2, L0776: 2, L0657: 2, L0663: 2, L0438: 2, H0689: 2, H0521: 2, L0439: 2, L0745: 2, L0590: 2, L0581: 2, L0599: 2, H0265: 1, S0114: 1, H0656: 1, H0661: 1, H0396: 1, L0562: 1, S0356: 1, S0360: 1, H0580: 1, S0046: 1, H0462: 1, H0392: 1, H0592: 1, H0486: 1, H0618: 1, T0048: 1, H0318: 1, H0421: 1, H0545: 1, H0150: 1, T0010: 1, S0028: 1, H0271: 1, H0617: 1, H0169: 1, H0068: 1, L0351: 1, H0494: 1, H0396: 1, L0446: 1, L0763: 1, L0761: 1, L0667: 1, L0372: 1, L0644: 1, L0771: 1, L0648: 1, L0662: 1, L0768: 1, L0766: 1, L0774: 1, L0809: 1, L0665: 1, H0547: 1, H0519: 1, H0593: 1, H0672: 1, L0602: 1, S0152: 1, H0522: 1, L0786: 1, L0779: 1, L0780: 1, L0758: 1, L0759: 1 and H0668: 1.
1355	HMAK52	853364	1365	324 - 383	3962	L0562: 1 and S0144: 1.	AR235: 6, AR285: 6, AR295: 5, AR291: 5, AR297: 5, AR287: 4, AR282: 4, AR261: 4, AR161: 4, AR162: 4, AR236: 4, AR246: 4, AR163: 4, AR296: 3, AR312: 3, AR212: 3, AR170: 3, AR165: 3.

356	HMACL77	853365	1366	251 - 355	3963		AR055: 3, AR089: 3, AR288: 3, AR164: 3, AR176: 3, AR166: 3, AR213: 3, AR262: 3, AR096: 3, AR195: 3, AR309: 3, AR205: 3, AR215: 3, AR189: 3, AR192: 3, AR311: 3, AR225: 3, AR269: 3, AR294: 3, AR173: 3, AR039: 2, AR263: 2, AR293: 2, AR283: 2, AR258: 2, AR053: 2, AR183: 2, AR060: 2, AR255: 2, AR257: 2, AR180: 2, AR204: 2, AR300: 2, AR177: 2, AR289: 2, AR191: 2, AR270: 2, AR178: 2, AR196: 2, AR201: 2, AR175: 2, AR168: 2, AR316: 2, AR299: 2, AR243: 2, AR224: 2, AR272: 2, AR190: 2, AR218: 2, AR181: 2, AR174: 2, AR214: 2, AR313: 2, AR286: 1, AR238: 1, AR308: 1, AR266: 1, AR185: 1, AR188: 1, AR217: 1, AR260: 1, AR290: 1, AR203: 1, AR239: 1, AR222: 1, AR226: 1, AR231: 1, AR216: 1, AR193: 1, AR182: 1, AR267: 1, AR228: 1, AR179: 1, AR211: 1, AR240: 1 S0144: 2	Xq26	300037, 300076,
							AR089: 6, AR316: 6,		

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1359	HMADJ74	795479	1369	264 - 1139	3966	Asp-229 to Cys-239, Asn-244 to Gln-253, Thr-271 to Ser-278.	AR309: 3, AR271: 3, AR230: 3, AR166: 3, AR288: 3, AR191: 3, AR262: 3, AR240: 3, AR178: 3, AR253: 3, AR257: 3, AR252: 3, AR215: 3, AR311: 3, AR239: 3, AR196: 3, AR190: 3, AR287: 3, AR264: 3, AR171: 3, AR225: 3, AR173: 3, AR272: 3, AR200: 2, AR216: 2, AR274: 2, AR242: 2, AR297: 2, AR214: 2, AR193: 2, AR188: 2, AR203: 2, AR222: 2, AR224: 2, AR243: 2, AR275: 2, AR204: 2, AR312: 2, AR189: 2, AR199: 2, AR206: 2, AR207: 2, AR195: 2, AR265: 2, AR246: 1, AR211: 1, AR308: 1, AR174: 1, AR197: 1, AR180: 1, AR260: 1, AR052: 1, AR221: 1 S0144: 6, S0278: 5, S0002: 4, S0344: 3, H0521: 3, S0003: 2, H0575: 1, S0214: 1, H0068: 1, H0591: 1, L0806: 1, L0805: 1, L0776: 1 and L0791: 1.	8q22	216550, 259730
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1361	HMA01	837235	1371	136 - 330	3968	Arg-20 to Glu-27.	<p>2, H0624: 1, H0171: 1, H0556: 1, H0220: 1, S0114: 1, H0657: 1, H0692: 1, S0116: 1, S0282: 1, H0402: 1, S0418: 1, S0046: 1, S0278: 1, H0549: 1, S0222: 1, H0404: 1, H0607: 1, H0574: 1, H0486: 1, H0013: 1, H0427: 1, H0575: 1, S0010: 1, S0346: 1, H0318: 1, H0544: 1, H0050: 1, H0083: 1, S0214: 1, H0328: 1, H0428: 1, S0364: 1, H0598: 1, H0038: 1, H0040: 1, H0056: 1, H0509: 1, S0210: 1, S0002: 1, H0529: 1, H0517: 1, L0369: 1, L0763: 1, L0770: 1, L0769: 1, L0667: 1, L0662: 1, L0768: 1, L0774: 1, L0653: 1, L0776: 1, L0809: 1, L0788: 1, L0664: 1, H0520: 1, H0593: 1, S0380: 1, H0522: 1, H0436: 1, H0478: 1, H0479: 1, S0314: 1, L0748: 1, L0756: 1, L0779: 1, L0777: 1, L0684: 1, H0707: 1 and L0599: 1</p>		
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1362	HMAJS26	831093	1372	743 - 937	3969	Pro-30 to Gln-40.	1, H0090: 1, H0040: 1, H0616: 1, H0488: 1, H0494: 1, S0440: 1, L0763: 1, L0770: 1, L0667: 1, L0372: 1, L0651: 1, L0805: 1, L0606: 1, L0809: 1, L0665: 1, S0216: 1, H0698: 1, H0519: 1, H0711: 1, H0435: 1, S0328: 1, H0696: 1, H0436: 1, S0432: 1, S0027: 1, S0028: 1, L0746: 1, L0786: 1, L0597: 1 and L0594: 1.			
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1363	HMCED78	829071	1373	471 - 542	3970		ARG60: 15, AR316: 14, AR089: 14, L0777: 15, L0766: 7, L0776: 6, L0751: 6, L0770: 4, L0775: 4, L0806: 4, L0805: 4, L0780: 4, S0214: 3, L0769: 3, L0774: 3, L0755: 3, H0599: 2, S0003: 2, L0768: 2, L0803: 2, L0807: 2, L0788: 2, L0743: 2, L0740: 2, L0754: 2, L0756: 2, L0779: 2, L0752: 2, L0758: 2, L0591: 2, L0603: 2, H0159: 1, H0661: 1, H0370: 2, H0360: 2, H0360: 600143, 601385, 602629	8p22-q21.13		

1364	HMCN86	886182	1374	413 - 661	3971	Pro-46 to Arg-63.	1, S0045: 1, S0222: 1, L0586; 1, H0575: 1, S0010: 1, S0474; 1, H0309: 1, S0050: 1, S0051: 1, S0022: 1, H0553: 1, H0169; 1, H0591: 1, H0038: 1, H0634; 1, S0142: 1, S0422: 1, L0369; 1, L0771: 1, L0521: 1, L0655; 1, L0783: 1, L0787: 1, S0374; 1, H0659: 1, S0152: 1, S3012; 1, L0439: 1, L0747: 1, L0750: 1, S0026: 1 and H0543: 1. AR060: 398, AR316: 365, AR089: 330 H0618: 5, L0757: 5, S0007: 3, H0728: 2, H0253: 2, H0620: 2, H0617: 2, L0770: 2, L0659: 2, L5286: 2, L0745: 2, L0747: 2, L0599: 2, H0265: 1, H0686: 1, H0685: 1, H0656: 1, L0785: 1, S0212: 1, H0483: 1, S0356: 1, H0675: 1, S0408: 1, L0717: 1, H0409: 1, H0256: 1, S0346: 1, S0049: 1, H0009: 1, H0123: 1, S0051: 1, T0010: 1, H0039: 1, H0038: 1, H0616: 1, H0264: 1, H0412: 1, H0494: 1, S0344: 1, L0371: 1, L0639: 1, L0646: 1, L0794: 1, L0766: 1, L0774: 1, L0775: 1, L0651: 1, L0378: 1, L0655: 1, L0809: 1, L0438: 1, H0648: 1, S0044: 1, H0555: 1, H0626: 1, L0746: 1, L0750: 1, L0758: 1, L0759: 1, L0581: 1, H0543: 1 and H0506: 1. AR089: 8, AR316: 7, AR060: 6 L0605: 28, L0754: 9, S0003: 6, L0803: 6, L0777: 5, L0759: 4, L0770: 3, L0663: 3, H0683: 3, L0439: 3, L0756: 3, L0599:				
1365	HMC047	699850	1375	889 - 984	3972		190100, 200150, 229300, 229300, 229600, 264300, 600429, 600542, 600974, 600998, 602014, 602088	9q21-q22			

1366	HMCGR88	654854	1376	317 - 352	3973	Thr-2 to Arg-11.	<p>3, S0026: 3, H0171: 2, S0418: 2, H0587: 2, H0050: 2, L0483: 2, H0032: 2, H0591: 2, H0413: 2, L0772: 2, L0768: 2, L0649: 2, L0659: 2, L0666: 2, H0547: 2, H0519: 2, H0670: 2, S0380: 2, L0747: 2, L0731: 2, L0587: 2, L0591: 2, L0362: 2, S0192: 2, H0624: 1, T0049: 1, H0663: 1, H0402: 1, H0638: 1, S0376: 1, S0444: 1, S0360: 1, H0208: 1, S0026: 1, H0392: 1, H0635: 1, L0021: 1, H0575: 1, H0581: 1, H0052: 1, H0596: 1, H0597: 1, L0738: 1, H0544: 1, H0024: 1, S0051: 1, H0428: 1, H0622: 1, H0031: 1, H0553: 1, H0644: 1, H0169: 1, H0090: 1, H0038: 1, H0040: 1, H0100: 1, H0494: 1, H0560: 1, H0625: 1, H0646: 1, S0344: 1, H0538: 1, S0422: 1, H0529: 1, L0646: 1, L0662: 1, L0794: 1, L0387: 1, L0766: 1, L0804: 1, L0776: 1, L0527: 1, L0647: 1, L0665: 1, L0438: 1, L0352: 1, H0435: 1, H0658: 1, H0660: 1, H0672: 1, S0330: 1, S0378: 1, H0518: 1, H0521: 1, H0522: 1, L0779: 1, S0031: 1, H0444: 1, L0589: 1, L0592: 1 and L0608: 1.</p>	11	<p>AR263: 17, AR250: 14, AR254: 14, AR309: 13, AR212: 13, AR053: 13, AR264: 13, AR213: 11, AR253: 11, AR268: 9, AR311: 9, AR235: 9, AR225: 8, AR312: 8, AR162: 8, AR161: 8, AR163: 8, AR096: 7.</p>
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1367	HMCIH27	862038	1377	152 - 301	3974			1, L0606: 1, L0790: 1, H0698: 1, H0701: 1, S0350: 1, H0478: 1, H0727: 1, S0390: 1, L0749: 1, L0779: 1, H0543: 1, H0423: 1 and S0424: 1.		
1368	HMCIQ20	827296	1378	356 - 436	3975			AR089: 20, AR316: 14, AR060: 10 L0748: 3, S0344: 2, H0590: 1, S0010: 1, H0050: 1, L0803: 1 and S0053: 1.		
1369	HMCIC19	845309	1379	215 - 475	3976	Pro-43 to Leu-49, Gly-81 to Lys-86.		AR089: 7, AR316: 7, AR060: 6 L0748: 3, S0344: 2, S0010: 1, H0050: 1, L0803: 1 and S0053: 1.		
1370	HMDAB44	603176	1380	432 - 605	3977	Lys-21 to Trp-34, Tyr-36 to Gly-42.		AR060: 7, AR316: 6, AR089: 5 S0344: 1, L0763: 1, L0772: 1 and L0758: 1.		
1371	HMDAE88	638222	1381	377 - 601	3978	Ala-19 to His-26, Asn-56 to Asp-62.		H0346: 1, H0172: 1 and H0665: 1.		
1372	HMDAG62	825493	1382	399 - 647	3979	Cys-28 to Cys-34, Asn-40 to Thr-46, Phe-62 to Leu-70.		AR060: 5, AR316: 5, AR089: 4 L0745: 11, L0439: 10, L0483: 4, L0774: 3, H0616: 2, L0438: 2, S0328: 2, S0212: 1, H0346: 1, S0366: 1, L0717: 1, H0369: 1, S0222: 1, H0431: 1, H0244: 1, L0021: 1, H0036: 1, H0546: 1, H0567: 1, T0003: 1, H0375: 1, S0210: 1, L0662: 1, L0653: 1, L0789: 1, H0520: 1, S0152: 1 and L0747: 1.		
1373	HMDAK20	604990	1383	149 - 283	3980			H0346: 1		
1374	HMDAM08	638224	1384	31 - 129	3981			H0346: 1		
1375	HMDAM39	602907	1385	38 - 124	3982			H0346: 1 and L0659: 1.		
1376	HMEAA41	587304	1386	9 - 422	3983	Ser-82 to Gly-88,		L0747: 5, H0556: 4, L0769: 1	17p13	138 190, 254210.

1377	HMECM77	581822	1387	141 - 269	3984	Thr-36 to Arg-42.	4, L0806: 3, L0790: 3, L0779: 3, H0265: 2, H0013: 2, L0666: 2, L0439: 2, L0740: 2, L0749: 2, L0752: 2, L0757: 2, L0596: 2, L0049: 1, S0046: 1, S0132: 1, S0476: 1, L0717: 1, H0549: 1, H0600: 1, H0559: 1, H0046: 1, H0083: 1, H0266: 1, S0314: 1, H0622: 1, H0674: 1, H0135: 1, H0090: 1, L0564: 1, H0494: 1, S0440: 1, L0772: 1, L0800: 1, L0644: 1, L0794: 1, L0766: 1, L0776: 1, L0807: 1, L0809: 1, L0791: 1, L0665: 1, H0144: 1, H0660: 1, S0406: 1, L0780: 1, S0434: 1 and L0595: 1.		271900, 600179, 600977, 601202, 601777
1378	HMEBH21	603187	1388	20 - 136	3985		AR060: 4, AR316: 3, AR089: 2, H0266: 1		
1379	HMEET36	603197	1389	56 - 154	3986		H0266: 1 H0031: 4, S0360: 3, H0486: 3, L0764: 3, L0754: 3, L0749: 3, L0752: 3, H0255: 2, S0414: 2, S0346: 2, H0615: 2, L0666: 2, H0144: 2, L0438: 2, L0750: 2, L0777: 2, L0731: 2, L0599: 2, S0001: 1, S0045: 1, L0476: 1, H0619: 1, S0222: 1, H0455: 1, H0586: 1, H0013: 1, T0010: 1, H0375: 1, H0266: 1, H0316: 1, S0036: 1, H0090: 1, H0591: 1, H0264: 1, H0268: 1, H0646: 1, L0794: 1, L0766: 1, L0803: 1, L0661: 1, L0659: 1, L0809: 1, L0530: 1, L0647: 1, L0663: 1, L0665: 1, H0547: 1, H0682: 1, S0330: 1, H0696: 1, S0044: 1, H0436: 1, S0032: 1, L0439: 1, L0755: 1, L0591: 1, L0362: 1 and H0423: 1.		13

1380	HMEZ07	638225	1390	192 - 320	3987				H0309: 1, H0266: 1 and H0059: 1.
1381	HMEFB15	596820	1391	117 - 227	3988	Chr-8 to Arg-13.			H0266: 1
1382	HMEIH57	840370	1392	121 - 273	3989				AR060: 3, AR316: 3, AR089: 2 S0114: 2 and H0266: 1.
1383	HMEI21	767276	1393	553 - 615	3990				AR089: 7, AR316: 6, AR060: 4 H0457: 12, H0521: 8, L0439: 8, L0766: 6, H0622: 5, L0666: 5, H0255: 4, L0769: 4, S0406: 4, L0758: 4, H0657: 3, H0253: 3, H0135: 3, L0775: 3, L0659: 3, S0152: 3, L0731: 3, H0667: 3, S0420: 2, S0354: 2, H0550: 2, H0586: 2, H0587: 2, H0036: 2, H0618: 2, H0052: 2, H0688: 2, H0617: 2, H0040: 2, H0059: 2, L0662: 2, L0806: 2, L0655: 2, L0657: 2, L0664: 2, L0438: 2, H0593: 2, H0539: 2, H0694: 2, H0436: 2, L0780: 2, L0753: 2, S0024: 1, H0583: 1, H0650: 1, H0344: 1, H0484: 1, H0638: 1, S0358: 1, H0580: 1, S0007: 1, H0393: 1, S0222: 1, H0592: 1, L0021: 1, H0575: 1, S0049: 1, H0266: 1, H0271: 1, H0416: 1, S0022: 1, H0039: 1, H0213: 1, H0644: 1, L0142: 1, H0181: 1, S0366: 1, H0488: 1, H0487: 1, S0038: 1, L0763: 1, L0770: 1, L0637: 1, L5566: 1, L0646: 1, L0643: 1, L0773: 1, L0648: 1, L0774: 1, L0375: 1, L0376: 1, L0378: 1, L0653: 1, L0656: 1, L0634: 1, L0526: 1, L0783: 1, L0792: 1, H0547: 1, H0519: 1, H0666: 1, H0478: 1, S3012: 1, L0742: 1, L0748: 1, L0751:

1384	HMEIX79	778077	1394	235 - 270	3991			1, L0750: 1, S0434: 1, S0436: 1, L0597: 1, H0665: 1, H0543: 1 and S0460: 1. AR060: 10, AR316: 8, AR089: 6 L0731: 5, L0779: 3, L0752: 3, H0598: 2, S0150: 2, H0144: 2, H0638: 2, L0747: 2, H0171: 1, S0360: 1, S0408: 1, S0007: 1, H0266: 1, H0622: 1, L0774: 1, L0776: 1, L0783: 1, L0382: 1, L0665: 1, H0683: 1, S0028: 1, L0753: 1, L0759: 1 and H0542: 1.		
1385	HMEIC96	761218	1395	533 - 580	3992	Met-1 to Arg-9.		AR060: 6, AR316: 6, AR089: 6 L0731: 9, H0124: 8, L0794: 6, L0770: 4, L0439: 4, H0123: 3, H0040: 3, L0369: 3, H0662: 2, H0599: 2, H0024: 2, H0494: 2, L0662: 2, L0659: 2, L0438: 2, S0126: 2, L0743: 2, L0777: 2, S0338: 1, S0360: 1, H0208: 1, S0132: 1, H0250: 1, H0575: 1, H0545: 1, L0471: 1, H0012: 1, S0050: 1, T0010: 1, H0266: 1, H0188: 1, H0628: 1, L0638: 1, L0764: 1, L0771: 1, L0386: 1, L0607: 1, L0789: 1, L0758: 1, L0759: 1, S0192: 1, S0196: 1 and H0506: 1. H0266: 1, T0067: 1, H0264: 1 and L0658: 1.		
1386	HMEID36	688860	1396	124 - 234	3993			AR089: 20, AR316: 17, AR060: 14 L0740: 7, L0756: 6, L0758: 6, L0774: 5, L0439: 5, L0755: 5, L0599: 5, L0770: 4, L0752: 4, H0575: 3, H0591: 3, L0775: 3, L0757: 3, H0445: 3, H0170: 3		106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910.
1387	HMEIK28	825591	1397	943 - 1023	3994				Op21.3	

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1388	HMEKH55	833069	1398	245 - 361	3995	AR089; 12, AR316; 10, AR060; 9 L0595; 11, H0521; 6, L0783; 5, H0520; 5, H0547; 5, L0593;	

1389	HMEKW44	825499	1399	26 - 202	3996	Arg-48 to Cys-57.	<p>4, S0356: 3, H0615: 3, L0794: 3, L0776: 3, L0747: 3, L0596: 3, H0599: 2, H0251: 2, H0622: 2, H0038: 2, L0769: 2, L0764: 2, L0771: 2, L0740: 2, L0754: 2, L0755: 2, L0731: 2, H0657: 1, H0341: 1, H0663: 1, S0408: 1, S0445: 1, H0393: 1, H0331: 1, H0574: 1, T0114: 1, H0318: 1, H0046: 1, H0266: 1, H0328: 1, H0039: 1, H0591: 1, T0042: 1, H0494: 1, H0561: 1, H0641: 1, S0002: 1, L0761: 1, L0800: 1, L0766: 1, L0498: 1, L0803: 1, L0774: 1, L0805: 1, L0657: 1, L0665: 1, H0319: 1, S0126: 1, S0454: 1, H0134: 1, H0436: 1, S0027: 1, L0749: 1, L0750: 1, L0591: 1, H0667: 1, H0542: 1 and H0423: 1.</p>		
1390	HMEKW71	855955	1400	244 - 402	3997	Gln-2 to His-14, Pro-17 to Glu-22, Pro-37 to Thr-48.	<p>H0266: 2, L0758: 2, L0002: 1, H0438: 1, H0591: 1, L0771: 1 and L0463: 1.</p> <p>L0794: 11, L0754: 9, L0747: 5, L0750: 5, L0803: 4, L0789: 4, L0749: 4, L0731: 4, H0255: 3, H0625: 3, H0529: 3, L0804: 3, L0809: 3, L0743: 3, L0755: 3, S0046: 2, H0599: 2, H0081: 2, H0268: 2, L0659: 2, L0663: 2, L0777: 2, H0662: 1, S0442: 1, S0408: 1, S0045: 1, H0497: 1, H0333: 1, H0486: 1, H0618: 1, H0253: 1, H0052: 1, H0309: 1, H0150: 1, H0570: 1, T0003: 1, H0083: 1, H0510: 1, H0266: 1, H0424: 1, S0366: 1, H0413: 1, H0509: 1, S0472: 1, H0649: 1, L0770: 1, L0646: 1, L0768: 1, L0774: 1, L0775: 1, L0666:</p>	9q34.3	120215, 120215, 190198

1391	HMEI W26	581068	1401	92 - 163	3998	Gly-18 to Gly-23.	1, S0053: 1, H0593: 1, S0378: 1, S0380: 1, L0758: 1, L0759: 1 and H0506: 1 L0771: 6, L0766: 6, L0803: 6, H0521: 6, L0731: 6, H0341: 5, S0354: 5, L0770: 5, H0519: 5, L0439: 5, L0754: 5, H0009: 4, L0521: 4, L0662: 4, L0438: 4, S0028: 4, L0758: 4, S0436: 4, L0485: 4, L0601: 4, H0657: 3, H0638: 3, S0418: 3, S0007: 3, S0222: 3, S0214: 3, H0673: 3, S0422: 3, L0794: 3, L0805: 3, L0776: 3, H0144: 3, H0670: 3, S0406: 3, L0756: 3, H0667: 3, S0420: 2, S0358: 2, S0360: 2, H0729: 2, H0733: 2, S0476: 2, H0645: 2, S0300: 2, H0156: 2, S0010: 2, H0178: 2, H0375: 2, S6028: 2, H0266: 2, S0003: 2, H0428: 2, H0169: 2, S0036: 2, H0634: 2, H0529: 2, L0369: 2, L0640: 2, L0637: 2, L0761: 2, L0646: 2, L0649: 2, L0774: 2, L0775: 2, L0659: 2, L0783: 2, L0809: 2, L0666: 2, L0665: 2, H0725: 2, H0547: 2, H0435: 2, H0659: 2, S0380: 2, S3014: 2, S0206: 2, L0752: 2, L0759: 2, S0434: 2, L0596: 2, H0668: 2, H0170: 1, H0556: 1, S0342: 1, H0713: 1, H0717: 1, H0716: 1, H0294: 1, T0049: 1, S0218: 1, S0282: 1, S0400: 1, H0241: 1, H0402: 1, L0534: 1, L0539: 1, S0376: 1, S0444: 1, S0410: 1, H0728: 1, H0229: 1, S0045: 1, S6026: 1, H0406: 1, S0220: 1, H0441: 1, H0415: 1, H0438: 1, H0362: 1, H0333: 1, H0574:		
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1392	HMCBT32	732678	1402	243 - 308	3999		1, H0486: 1, T0060: 1, H0013: 1, H0427: 1, H0599: 1, H0575: 1, H0318: 1, H0381: 1, H0374: 1, H0085: 1, T0110: 1, H0150: 1, H0563: 1, S0388: 1, S0051: 1, H0687: 1, H0039: 1, H0030: 1, H0553: 1, H0644: 1, H0628: 1, H0166: 1, L0455: 1, H0708: 1, S0366: 1, H0090: 1, H0591: 1, H0038: 1, H0551: 1, H0380: 1, H0623: 1, S0386: 1, T0042: 1, H0494: 1, H0561: 1, S0370: 1, H0509: 1, H0130: 1, H0641: 1, L0598: 1, L0769: 1, L0638: 1, L0796: 1, L0667: 1, L0630: 1, L0373: 1, L0800: 1, L0641: 1, L0773: 1, L5569: 1, L5574: 1, L0381: 1, L0806: 1, L0661: 1, L0527: 1, L0518: 1, L5622: 1, L5623: 1, L0789: 1, L0790: 1, L0793: 1, S0374: 1, H0520: 1, S0126: 1, H0648: 1, H0522: 1, H0555: 1, S0392: 1, S3012: 1, L0742: 1, L0749: 1, L0777: 1, L0753: 1, L0755: 1, L0757: 1, L0366: 1, S0026: 1, S0276: 1, S0196: 1, H0542: 1 and H0543: 1.	8p23.1
1393	HMHBI09	847402	1403	199 - 333	4000	Met-1 to Phe-7, Pro-30 to Trp-42.	AR060: 6, AR316: 5, AR089: 3 H0284: 2 AR316: 8, AR060: 8, AR089: 8 H0529: 8, L0794: 6, L0439: 5, S0424: 4, H0559: 3, H0083: 3, L0769: 3, L0783: 3, L0809: 3, L0748: 3, L0777: 3, L0759: 3, S0192: 3, H0341: 2, H0587: 2, H0266: 2, H0286: 2, H0623: 2, L0351: 2, S0422: 2, L0761: 1.	

1394	HMHBI93	844729	1404	319 - 366	4001	<p>2, L0659; 2, L0565; 2, L0438; 2, L0745; 2, L0756; 2, L0758; 2, H0665; 2, H0739; 1, H0265; 1, H0685; 1, H0657; 1, L0427; 1, H0484; 1, S0420; 1, S0358; 1, L0476; 1, H0601; 1, H0592; 1, H0013; 1, H0427; 1, L0021; 1, S0474; 1, H0581; 1, H0597; 1, H0546; 1, H0046; 1, H0086; 1, H0024; 1, T0010; 1, H0594; 1, H0428; 1, H0604; 1, H0181; 1, H0135; 1, H0272; 1, S0438; 1, H0647; 1, S0144; 1, L0770; 1, L0639; 1, L0372; 1, L0800; 1, L0644; 1, L0766; 1, L0803; 1, L0382; 1, L0787; 1, L0788; 1, L0790; 1, L0663; 1, L0665; 1, S0374; 1, L0352; 1, H0547; 1, H0593; 1, H0521; 1, H0522; 1, S014; 1, S0027; 1, L0742; 1, L0740; 1, L0731; 1, L0746; 1, L0749; 1, L0779; 1, L0757; 1 and S0436; 1.</p>					
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17p13.2

1395	HMI/HP74	765108	1405	208 - 309	4002		1, H0641: 1, S0002: 1, L0639: 1, L0761: 1, L0772: 1, L0372: 1, L0646: 1, L0641: 1, L0764: 1, L0381: 1, L0774: 1, L0651: 1, L0806: 1, L0655: 1, L0783: 1, L0663: 1, H0520: 1, H0689: 1, H0690: 1, H0670: 1, H0672: 1, H0539: 1, H0710: 1, S0044: 1, S0404: 1, L0744: 1, L0751: 1, L0750: 1, L0753: 1, H0444: 1, S0434: 1, S0011: 1, S0276: 1, S0196: 1, S0042: 1, S0458: 1 and H0677: 1.	
1396	HMI/ACS2	825484	1406	251 - 409	4003		AR089: 28, AR316: 21, AR060: 15 H0457: 4, H0547: 3, L0742: 3, H0265: 2, H0052: 2, L0761: 2, L0649: 2, L0777: 2, H0717: 1, S0282: 1, H0255: 1, S0354: 1, S0444: 1, H0645: 1, H0550: 1, H0586: 1, H0253: 1, H0318: 1, H0581: 1, S6028: 1, S0338: 1, S0150: 1, L0764: 1, L0794: 1, L0766: 1, L0542: 1, H0693: 1, H0519: 1, H0689: 1, H0711: 1, H0521: 1, L0439: 1, H0422: 1 and H0506: 1.	19pter-p13.3
1397	HMI/AD75	846483	1407	75 - 194	4004		S6028: 1	

1398	HMIAG42	846339	1408	273 - 383	4005	Pro-15 to Gly-23.	AR282: 4, AR172: 4, AR245: 3, AR213: 3, AR168: 2, AR252: 2, AR165: 2, AR216: 2, AR211: 2, AR230: 2, AR205: 2, AR161: 2, AR224: 2, AR222: 2, AR247: 1, AR163: 1, AR215: 1, AR096: 1, AR257: 1, AR232: 1, AR239: 1, AR283: 1, AR178: 1, AR286: 1, AR295: 1, AR229: 1, AR183: 1, AR312: 1, S0136: 47, L0769: 11, L0439: 7, L0750: 7, L0777: 7, H0620: 5, L0776: 5, H0519: 5, L0740: 5, L0752: 5, H0341: 4, H0545: 4, S0440: 4, L0805: 4, L0509: 4, L0809: 4, L0666: 4, L0748: 4, L0756: 4, S0436: 4, H0624: 3, H0265: 3, H0556: 3, S0418: 3, S0045: 3, H0393: 3, L0717: 3, H0266: 3, S0422: 3, L0764: 3, L0659: 3, H0696: 3, L0755: 3, L0731: 3, L0759: 3, S0434: 3, S0026: 3, S0356: 2, S0358: 2, S0360: 2, H0587: 2, H0574: 2, T0060: 2, S0010: 2, H0046: 2, H0510: 2, H0032: 2, H0673: 2, H0169: 2, H0674: 2, H0135: 2, H0038: 2, H0413: 2, H0646: 2, L0646: 2, L0766: 2, L0803: 2, L5622: 2, L0665: 2, S0374: 2, H0659: 2, H0648: 2, S0328: 2, S0378: 2, S0380: 2, S3014: 2, L0758: 2, L0588: 2, L0589: 2, L0592: 2, L0594: 2, L0603: 2, H0543: 2, H0711: 1, S0040: 1, H0717: 1, H0295: 1,	8
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1399	HMIAG55	736020	1409	113 - 220	4006			L0485: 1, L0608: 1, L0595: 1, H0667: 1, L0097: 1, S0196: 1 and S0446: 1.		
1400	HMIAG72	824091	1410	740 - 856	4007	Met-28 to Gln-34.		H0521: 14, L0776: 9, L0777: 9, L0439: 6, H0638: 5, L0595: 4, S0222: 3, S0010: 3, H0591: 3, L0598: 3, L0770: 3, H0522: 3, L0740: 3, L0756: 3, L0758: 3, L0759: 3, S0424: 3, S0134: 3, H0630: 2, S0408: 2, S6026: 2, H0486: 2, H0581: 2, H0046: 2, H0040: 2, L0794: 2, L0775: 2, L0438: 2, H0435: 2, S0152: 2, L0748: 2, L0747: 2, L0749: 2, L0731: 2, L0757: 2, S0260: 2, L0596: 2, L0592: 2, H0422: 2, S0412: 2, S0212: 1, H0663: 1, S0358: 1, H0580: 1, S6022: 1, H0389: 1, H0549: 1, S6014: 1, H0592: 1, H0331: 1, H0013: 1, H0427: 1, S0474: 1, H0024: 1, H0201: 1, S0051: 1, H0375: 1, S6028: 1, S0312: 1, H0622: 1, T0006: 1, H0553: 1, H0644: 1, L0055: 1, H0032: 1, H0169: 1, S0366: 1, H0090: 1, H0038: 1, T0067: 1, H0264: 1, H0413: 1, S0014: 1, H0560: 1, H0561: 1, H0509: 1, S0150: 1, UNKNWN: 1, L0371: 1, L0769: 1, L0638: 1, L0662: 1, L0767: 1, L0768: 1, L0766: 1, L0803: 1, L0655: 1, L0606: 1, L0636: 1, L0809: 1, L0790: 1, L0666: 1, L0663: 1, L0664: 1, S0374: 1, H0520: 1, S0126: 1, S0378: 1, H0528: 1, H0555: 1, H0626: 1, S0032: 1, L0731: 1, L0754: 1, L0746: 1, L0750: 1, L0780: 1,	12p13	103930, 120580, 131440, 139130, 142680, 176260, 190430, 200990, 216930, 600228, 600414, 600618, 602096

1401	HMIAL39	668251	1411	212 - 337	4008	1, L0752: 1, L0755: 1, S0031: 1, H0445: 1 and L0593: 1. L0747: 4, H0201: 2, L0438: 2, H0485: 1, H0446: 1, S0028: 1, T0023: 1, L0794: 1, L0774: 1, L0809: 1, L0666: 1, H0435: 1, H0436: 1, S3014: 1, S0027: 1, L0439: 1, L0740: 1, L0777: 1 and H0422: 1.			
1402	HMIA082	833070	1412	129 - 203	4009	L0744: 5, L0439: 4, L0591: 4, S0028: 3, L0794: 3, L0755: 3, H0013: 2, H0457: 2, L0518: 2, L0665: 2, S0404: 2, L0596: 2, S0420: 1, H0619: 1, H0645: 1, S0222: 1, H0431: 1, H0486: 1, H0318: 1, H0052: 1, H0046: 1, H0009: 1, H0050: 1, H0615: 1, H0039: 1, L0055: 1, H0591: 1, H0059: 1, H0100: 1, L0764: 1, L0803: 1, L0775: 1, L0776: 1, L0628: 1, L0527: 1, L0635: 1, L0809: 1, L0666: 1, H0693: 1, H0547: 1, H0660: 1, S0152: 1, L0748: 1, L0750: 1 and L0777: 1.			
1403	HMIAR42	809096	1413	236 - 262	4010	S0022: 8, S0436: 7, L0749: 6, L0779: 6, L0754: 5, L0752: 5, H0457: 4, H0547: 4, S0474: 3, H0014: 3, H0551: 3, S0440: 3, L0764: 3, L0766: 3, L0777: 3, L0755: 3, L0731: 3, H0686: 2, S0116: 2, S0003: 2, H0649: 2, L0649: 2, L0526: 2, S0378: 2, L0748: 2, L0750: 2, L0756: 2, L0753: 2, L0596: 2, L0592: 2, L0599: 2, H0543: 2, S0040: 1, S0212: 1, H0661: 1, S0442: 1, H0734: 1, H0208: 1, H0411: 1, H0427: 1, L0021: 1, H0052: 1, L0738: 1, H0050: 1, S6028: 1.			126650, 126650, 154276, 164860, 173360, 173360, 180105, 222800, 246900, 274600, 274600, 602081, 602136, 602136, 602136, 602447

1404	HMIAY33	668252	1414	360 - 434	4011		1, H0271: 1, S0214: 1, H0030: 1, L0142: 1, L0055: 1, S0036: 1, H0038: 1, L0564: 1, H0560: 1, H0695: 1, L0667: 1, L0772: 1, L0771: 1, L0662: 1, L0767: 1, L0794: 1, L0551: 1, L0776: 1, L0655: 1, L0659: 1, L0382: 1, L0666: 1, L0664: 1, H0698: 1, L0438: 1, H0520: 1, H0689: 1, S0380: 1, H0696: 1, S0404: 1, S0406: 1, H0436: 1, L0743: 1, L0439: 1, L0747: 1, L0758: 1, L0759: 1, L0591: 1, L0485: 1, S0011: 1 and S0194: 1.		
1405	HMIAY24	846484	1415	144 - 194	4012		H0170: 1, S6028: 1, H0090: 1 and L0749: 1. AR089: 35, AR316: 25, AR060: 15 L0758: 23, H0616: 7, S0410: 6, L0748: 6, L0665: 4, L0439: 4, S0442: 3, L0646: 3, L0662: 3, L0794: 3, L0803: 3, L0663: 3, S0216: 3, L0754: 3, L0749: 3, L0717: 2, L0667: 2, L0764: 2, L0771: 2, L0648: 2, L0375: 2, L0806: 2, L0653: 2, L0809: 2, L0666: 2, S0052: 2, S0428: 2, S0053: 2, L0759: 2, H0716: 1, S6024: 1, S0218: 1, S0282: 1, H0484: 1, H0255: 1, L0562: 1, L0539: 1, S0360: 1, S0046: 1, H0549: 1, H0370: 1, H0438: 1, H0333: 1, H0635: 1, H0581: 1, H0652: 1, H0309: 1, H0150: 1, L0471: 1, H0620: 1, H0594: 1, S6028: 1, H0179: 1, H0271: 1, H0252: 1, H0688: 1, H0622: 1, H0417: 1, H0617: 1, H0674: 1, H0135: 1, H0087: 1, H0059: 1, S0038: 1, S0472: 1, L4557: 1.		

1406	HMBD93	634227	1416	983 - 1180	4013	Pro-4 to Gly-13, Ala-42 to Ser-50.	1, L0770: 1, L0769: 1, L0637: 1, L0761: 1, L0800: 1, L0773: 1, L0766: 1, L0649: 1, L0775: 1, L0776: 1, L0518: 1, L0789: 1, L0438: 1, S0126: 1, H0658: 1, S0328: 1, S0152: 1, H0579: 1, S0028: 1, L0743: 1, L0753: 1, H0445: 1, S0276: 1, H0543: 1, H0422: 1 and S0446: 1.		
							AR089: 52, AR316: 42, AR060: 33 L0439: 11, L0751: 5, S0222: 3, L0769: 3, L0766: 3, H0617: 2, S0038: 2, L0770: 2, L0764: 2, L0794: 2, L0438: 2, L0747: 2, L0752: 2, H0445: 2, S06024: 1, S0001: 1, H0351: 1, H0586: 1, S0010: 1, H0373: 1, S0051: 1, T0010: 1, S6028: 1, H0264: 1, S0150: 1, L0768: 1, S0052: 1, H0522: 1, L0741: 1, L0753: 1, L0758: 1 and H0422: 1.		
1407	HMBE95	804597	1417	31 - 303	4014	Pro-43 to Cys-48.	S6028: 1		
1408	HMBG57	638227	1418	130 - 231	4015		L0599: 3, S6028: 1, H0165: 1, L0766: 1, L0803: 1, L0752: 1, L0589: 1, L0591: 1 and H0543: 1.		
1409	HMJAC12	841631	1419	276 - 398	4016	Ile-20 to Leu-29.	H0391: 1		
1410	HMKAN71	884161	1420	316 - 423	4017		L0754: 6, L0803: 4, L0766: 3, L0659: 3, H0638: 2, S0360: 2, L0794: 2, L0649: 2, L0806: 2, L0518: 2, L0663: 2, L0665: 2, H0659: 2, L0759: 2, L0588: 2, L0605: 2, H0657: 1, S0356: 1, L0717: 1, H0392: 1, H0600: 1, H0156: 1, H0251: 1, H0375: 1, S0003: 1, H0032: 1, H0634: 1, H0616: 1, H0561: 1, S0422: 1, L0773: 1, L0662: 1, L0768:	4	

1411	HMKBA33	596949	1421	87 - 191	4018	Thr-12 to Glu-21.	1, L0388: 1, L0775: 1, L0655: 1, L0661: 1, L0666: 1, S0053: 1, L0438: 1, H0547: 1, H0456: 1, S0037: 1, L0748: 1, L0779: 1, L0731: 1, L0758: 1, L0581: 1 and S0026: 1.		
1412	HMKC122	864176	1422	455 - 502	4019		H0392: 1 and L0777: 1. L0754: 4, L0777: 4, L0764: 2, L0803: 2, L0789: 2, L0748: 2, L0740: 2, L0731: 2, H0556: 1, T0002: 1, S0442: 1, H0675: 1, L0476: 1, H0392: 1, H0333: 1, H0013: 1, S0346: 1, S0049: 1, T0041: 1, S0440: 1, L0651: 1, L0809: 1, L0532: 1, L0663: 1, L0747: 1, L0749: 1, L0779: 1, L0752: 1, L0758: 1, L0362: 1 and S0106: 1.		
1413	HMKCK32	561576	1423	60 - 173	4020		AR089: 21, AR316: 17, AR060: 13 H0392: 1		
1414	HMKCP81	608296	1424	131 - 223	4021		H0556: 2, L0771: 2, L0662: 2, L0766: 2, L0779: 2, S0001: 1, H0637: 1, H0580: 1, S0222: 1, H0392: 1, H0333: 1, H0599: 1, T0115: 1, H0625: 1, L0759: 1, L0605: 1, H0543: 1 and S0424: 1.		
1415	HMKCY49	638090	1425	269 - 277	4022		H0580: 1, H0392: 1 and L0589: 1.		
1416	HMKDD51	894846	1426	290 - 409	4023		L0754: 2, H0392: 1, L0663: 1 and L0439: 1.		
1417	HMKDG69	588407	1427	286 - 324	4024		AR089: 14, AR316: 10, AR060: 7		
1418	HMKDM80	608168	1428	386 - 493	4025		H0373: 2 and H0392: 1.		
1419	HMKEG88	634245	1429	142 - 201	4026	Phe-11 to Glu-18.	H0392: 2 and S0132: 1. AR060: 3, AR316: 3, AR089: 2 H0392: 1		

1420	HMM/A09	822859	1430	127 - 231	4027			H0444: 1			
1421	HMM/AK92	610100	1431	120 - 224	4028			H0444: 1			
1422	HMM/AL32	562033	1432	276 - 419	4029	Lys-39 to Lys-48.		AR089: 2, AR316: 1 H0444: 1			
1423	HMM/BD19	607468	1433	290 - 319	4030			L0471: 2, L0361: 2, L0641: 1, H0672: 1, L0755: 1 and H0444: 1.			
1424	HMM/BF22	780406	1434	42 - 149	4031			S0114: 1, S0134: 1, H0644: 1, H0040: 1 and H0444: 1.	3p25.3-3p24.1	193300, 193300, 227646, 601154	
1425	HMM/BH91	607472	1435	234 - 302	4032			H0444: 1			
1426	HMM/BH94	607463	1436	86 - 148	4033			H0444: 1			
1427	HMM/BK55	608179	1437	260 - 385	4034			S0426: 1 and H0444: 1.			
1428	HMM/BQ31	609882	1438	85 - 198	4035	Arg-24 to Arg-35.		H0619: 1, H0309: 1, L0375: 1, L0754: 1 and H0444: 1.			
1429	HMM/BR63	607831	1439	271 - 405	4036			L0527: 2, H0306: 1, H0589: 1, H0587: 1, H0673: 1, L0763: 1, L0761: 1, L0766: 1, L0805: 1, L0526: 1, L0666: 1, L0665: 1, L0779: 1, L0758: 1, L0759: 1, H0444: 1 and S0276: 1.			
1430	HMM/BS55	664493	1440	103 - 225	4037			H0040: 2 and H0444: 1.			
1431	HMM/BT47	804594	1441	43 - 195	4038	Pro-41 to Leu-47.		H0444: 1			
1432	HMM/CD35	607840	1442	308 - 436	4039			L0517: 1, H0521: 1 and H0444: 1.			
1433	HMM/CD95	603202	1443	236 - 289	4040			AR089: 21, AR316: 15, AR060: 9 S0010: 1 and H0444: 1.			
1434	HMP/AB26	580854	1444	563 - 583	4041			AR246: 5, AR162: 4, AR235: 3, AR243: 3, AR168: 3, AR282: 2, AR171: 2, AR177: 2, AR309: 2, AR271: 2, AR161: 2, AR197: 2, AR270: 2, AR224: 2, AR214: 1, AR277: 1, AR181: 1, AR212: 1, AR178: 1, AR089: 1, AR183: 1 L0766: 3, L0803: 2, L0759:	12q21.33-q23.1	124200, 147440, 160781, 600175	

1435	HMPAP48	823359	1445	48 - 149	4042	Asn-19 to Thr-33.	2, H0170: 1, T0049: 1, H0069: 1, H0263: 1, H0060: 1, H0400: 1, H0038: 1, H0634: 1, L0770: 1, L0800: 1, L0764: 1, L0804: 1, L0774: 1, L0805: 1, L0664: 1, S0216: 1, S0406: 1, L0439: 1, L0740: 1, L0750: 1, L0786: 1, L0779: 1, L0777: 1, L0752: 1, L0755: 1, L0758: 1, H0542: 1 and H0422: 1. H0060: 1	3p21.2-p21.3	116806, 120120, 120120, 120120, 120436, 120436, 120436, 138320, 168468, 182280, 238310, 600163, 601226
1436	HMQA138	589964	1446	24 - 86	4043		L0794: 3, H0634: 2, H0220: 1 and H0250: 1.		
1437	HMQAT69	799551	1447	243 - 659	4044	Pro-65 to Leu-78, Ala-87 to Gln-95.	L0439: 8, L0803: 6, L0777: 6, H0250: 5, H0556: 4, H0590: 4, H0622: 4, L0748: 4, S0040: 3, H0618: 3, S0003: 3, H0553: 3, H0032: 3, H0616: 3, L0794: 3, L0743: 3, H0265: 2, H0717: 2, S0046: 2, S0132: 2, H0619: 2, H0550: 2, H0069: 2, H0036: 2, H0615: 2, H0424: 2, H0644: 2, L0143: 2, H0628: 2, H0038: 2, H0634: 2, H0264: 2, S0002: 2, L0806: 2, L0776: 2, L0809: 2, L0788: 2, H0144: 2, H0448: 2, S0027: 2, S0031: 2, H0136: 2, S0276: 2, H0423: 2, L0600: 2, H0624: 1, H0716: 1, S0134: 1, S0356: 1, S0354: 1, S0468: 1, H0261: 1, H0549: 1, H0357: 1, H0438: 1, H0592: 1, H0632: 1, H0013: 1, H0156: 1, H0575: 1, S0049: 1, H0310: 1, H0052: 1.	6q25.1-q26	100678, 133430, 133430, 147280, 167000, 173350, 173350, 173350, 180020, 600320, 600883, 602544

1438	HMQBL90	600363	1448	57 - 233	4045	Leu-6 to Gly-13, Pro-34 to Ser-45, Pro-47 to Thr-57.	1, H0251: 1, H0309: 1, T0115: 1, H0544: 1, H0545: 1, H0123: 1, H0050: 1, H0024: 1, H0057: 1, H0373: 1, H0051: 1, S0051: 1, T0010: 1, S0028: 1, H0286: 1, S0250: 1, S0214: 1, H0039: 1, T0023: 1, L0483: 1, H0401: 1, H0031: 1, L0142: 1, H0169: 1, H0135: 1, H0591: 1, H0059: 1, L0351: 1, H0494: 1, S0352: 1, H0652: 1, S0344: 1, L0763: 1, L0373: 1, L0800: 1, L0773: 1, L0768: 1, L0766: 1, L0649: 1, L0774: 1, L0805: 1, L0659: 1, L0384: 1, L0666: 1, L0665: 1, H0693: 1, L0438: 1, S0126: 1, H0672: 1, H0539: 1, S0380: 1, L0602: 1, S0332: 1, H0696: 1, S0174: 1, S0406: 1, H0576: 1, S0312: 1, L0740: 1, L0754: 1, L0779: 1, L0757: 1, S0434: 1, L0591: 1, L0599: 1, S0026: 1 and H0422: 1.			
1439	HMQBV62	826522	1449	499 - 516	4046		L0748: 2, L0439: 2, L0740: 2, L0750: 2, S0114: 1, H0255: 1, H0250: 1, H0056: 1, L0638: 1, L0662: 1 and L0747: 1. F0486: 1, H0250: 1, H0634: 1, S0002: 1, L0640: 1, H0547: 1, H0521: 1, L0439: 1, L0756: 1, L0731: 1, L0758: 1, S0196: 1 and H0423: 1.			
1440	HMQCA75	767086	1450	239 - 328	4047	His-18 to Ala-26.	L0748: 5, L0794: 4, L0438: 4, L0779: 4, L0752: 4, H0124: 3, L0803: 3, L0777: 3, H0556: 2, H0046: 2, L0771: 2, L0766: 2, L0791: 2, L0743: 2, L0747: 2, H0657: 1, H0664: 1, S0420: 1, H0392: 1, H0250: 1, H0085:			
1441	HMQCB37	732168	1451	288 - 299	4048					

1442	HMQCL80	603387	1452	97 - 135	4049			1, H0620: 1, H0071: 1, H0213: 1, H0417: 1, H0087: 1, T0067: 1, L0763: 1, L0770: 1, L0769: 1, L0637: 1, L0773: 1, L0768: 1, L0803: 1, L0807: 1, L0512: 1, L0783: 1, L0790: 1, L0664: 1, H0670: 1, S0330: 1, H0539: 1, H0522: 1, L0740: 1, L0758: 1, L0759: 1 and H0352: 1.		
1443	HMQCX41	603388	1453	221 - 409	4050			H0250: 1		
1444	HMQDM09	664494	1454	109 - 123	4051			L0749: 7, L0731: 7, L0759: 6, L0748: 5, L0596: 5, H0640: 4, H0135: 4, L0774: 4, L0755: 4, S0132: 3, L0771: 3, L0775: 3, L0783: 3, L0740: 3, L0754: 3, S0040: 2, H0580: 2, S0045: 2, H0411: 2, H0574: 2, H0052: 2, H0009: 2, H0014: 2, H0510: 2, T0023: 2, H0424: 2, H0641: 2, L0763: 2, L0770: 2, L0769: 2, L0372: 2, L0646: 2, L0655: 2, L0664: 2, L0438: 2, L0745: 2, L0730: 2, L0588: 2, H0624: 1, H0171: 1, H0265: 1, H0556: 1, L0785: 1, S0116: 1, H0484: 1, H0662: 1, H0402: 1, S0420: 1, S0354: 1, S0358: 1, S0376: 1, S0278: 1, H0550: 1, L0623: 1, H0250: 1, H0427: 1, H0618: 1, T0048: 1, H0581: 1, H0421: 1, T0110: 1, L0471: 1, H0011: 1, H0012: 1, H0620: 1, H0197: 1, H0355: 1, H0594: 1, H0286: 1, H0039: 1, H0622: 1, H0213: 1, H0031: 1, H0063: 1, H0100: 1, H0494: 1, S0344: 1, S0002: 1, S0426: 1, H0529: 1, L0796: 1, L0648: 1, L0662: 1, L0806: 1, L0509: 1, L0782: 1, L0809: 1	16p13.3	141750, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 156850, 186580, 191092, 600140, 600273, 601313, 601785

							1, L0790: 1, L0792: 1, S0428: 1, H0693: 1, S0126: 1, H0682: 1, H0684: 1, H0660: 1, S0330: 1, H0539: 1, H0521: 1, H0522: 1, S3012: 1, S0032: 1, L0752: 1, L0757: 1, L0758: 1, H0445: 1, L0589: 1 and L0581: 1.			
1445	HMQDL07	603180	1455	159 - 299	4052		H0250: 117, L0748: 4, S0376: 1, H0393: 1, H0252: 1, L0766: 1, L0807: 1 and S0330: 1.			
1446	HMSAP33	731969	1456	316 - 420	4053		H0179: 1, H0264: 1, S0002: 1 and H0521: 1.			
1447	HMSAZ48	877650	1457	225 - 299	4054		L0748: 2, S0002: 1 and L0749: 1.			
1448	HMSBN18	847405	1458	231 - 338	4055	Pro-22 to Gly-29.	H0046: 6, L0794: 4, H0547: 4, L0439: 3, L0779: 3, H0543: 3, L0454: 2, L0768: 2, L0663: 2, L0665: 2, L0749: 2, L0777: 2, H0716: 1, H0657: 1, H0662: 1, S0278: 1, T0039: 1, H0013: 1, H0052: 1, L0471: 1, H0591: 1, H0264: 1, S0440: 1, S0150: 1, S0002: 1, L0369: 1, L0640: 1, L0770: 1, L0662: 1, L0766: 1, L0803: 1, L0804: 1, L0378: 1, L0806: 1, L0666: 1, H0519: 1, H0539: 1, H0521: 1, S0176: 1, H0555: 1, L0747: 1, L0755: 1, L0731: 1, L0758: 1, L0362: 1 and S0424: 1.			
1449	HMSBS25	826487	1459	151 - 258	4056	Pro-19 to Cys-27.	S0002: 1			
1450	HMSBU14	844433	1460	233 - 307	4057	Ser-12 to Gly-19.	S0002: 1			
1451	HMSBZ10	610020	1461	240 - 326	4058		S0002: 1 and L0603: 1.			
1452	HMSCB94	847406	1462	97 - 162	4059	Met-1 to Ala-7.	S0134: 1, H0415: 1, S0002: 1 and H0519: 1.			
1453	HMSCK12	825475	1463	257 - 310	4060		AR089: 13, AR316: 10, AR060: 8 S0002: 1			

1454	HMSCP63	665517	1464	132 - 164	4061		S0002: 1		
1455	HMSCV75	838530	1465	146 - 232	4062		AR089: 9, AR316: 8, AR040: 7 S0002: 1		
1456	HMSCV85	858776	1466	336 - 431	4063		H0556: 2, H0402: 2, H0265: 1, H0318: 1, H0169: 1, H0131: 1, S0002: 1, L0792: 1 and L0663: 1.		
1457	HMSCW44	716249	1467	177 - 290	4064		S0382: 1, H0013: 1, S0002: 1, S0426: 1 and L0748: 1.		
1458	HMSCZ19	847408	1468	157 - 690	4065	Pro-102 to Asn-112, Gly-129 to Tyr-135, Pro-137 to Lys-143, Gln-168 to Trp-173.	L0731: 6, L0803: 3, H0547: 5, L0598: 4, L0754: 4, L0779: 4, H0543: 4, H0393: 3, S0222: 3, H0581: 3, H0544: 3, H0615: 3, L0646: 3, H0522: 3, L0750: 3, L0758: 3, H0423: 3, L0717: 2, S0278: 2, H0586: 2, H0013: 2, L0163: 2, L0143: 2, H0494: 2, S0422: 2, H0529: 2, L0776: 2, L0639: 2, L0663: 2, S0428: 2, H0520: 2, H0670: 2, H0521: 2, L0756: 2, L0780: 2, L0752: 2, L0362: 2, H0422: 2, H0624: 1, H0650: 1, S0420: 1, T0008: 1, H0411: 1, H0455: 1, H0438: 1, H0592: 1, H0497: 1, H0574: 1, H0486: 1, H0575: 1, S0010: 1, H0052: 1, H0596: 1, L0157: 1, H0083: 1, H0266: 1, H0286: 1, S0003: 1, S0214: 1, H0328: 1, H0031: 1, H0032: 1, L0455: 1, H0591: 1, H0412: 1, H0413: 1, H0056: 1, H0100: 1, T0042: 1, H0560: 1, S0150: 1, H0646: 1, S0142: 1, S0002: 1, L0641: 1, L0662: 1, L0768: 1, L0794: 1, L0766: 1, L0784: 1, L0809: 1, L0529: 1, L0790: 1, L0792: 1, L0666: 1, L0664: 1, L0665: 1, H0519: 1, H0666: 1, S0152:		

1459	HMSDI67	827298	1469	851 - 1132	4066	1, S0037: 1, S3014: 1, S0027: 1, L0751: 1, L0759: 1, L0605: 1, L0485: 1, H0653: 1, S0196: 1 and H0352: 1.	
1460	HMSDI79	813514	1470	347 - 388	4067	H0263: 1 and S0002: 1. L0439: 8, L0748: 4, S0002: 3, S0196: 3, S0045: 2, H0023: 2, S0142: 2, L0764: 2, L0754: 2, S0376: 1, S0300: 1, H0156: 1, S0010: 1, H0015: 1, H0083: 1, T0006: 1, L0331: 1, L0435: 1, H0641: 1, L0805: 1, L0636: 1, L0809: 1, L0790: 1, H0689: 1, H0666: 1, H0539: 1, H0521: 1, H0522: 1, L0749: 1, L0779: 1, L0777: 1, L0780: 1 and H0677: 1.	
1461	HMSDR28	801948	1471	102 - 176	4068	AR089: 14, AR316: 10, AR060: 7 H0031: 9, S0002: 3, L0794: 3, L0777: 3, L0759: 3, H0046: 2, H0266: 2, H0214: 2, S0114: 1, S0420: 1, H0574: 1, H0486: 1, H0036: 1, H0050: 1, S0051: 1, H0644: 1, T0042: 1, H0538: 1, S0426: 1, L0768: 1, L0766: 1, L0606: 1, L0789: 1, L0790: 1, L0791: 1, L0663: 1, L0665: 1, S0380: 1, S0152: 1, H0134: 1, S014: 1, L0749: 1, L0758: 1 and H0653: 1.	
1462	HMSFT25	581069	1472	154 - 237	4069	S0002: 1	
1463	HMSFWS2	603177	1473	60 - 116	4070	S0002: 1 and L0748: 1.	
1464	HMSGIT73	737857	1474	181 - 345	4071	S0002: 1	
1465	HMSGU30	847409	1475	738 - 974	4072	AR287: 15, AR291: 10, AR296: 9, AR235: 9, AR285: 9, AR261: 9, AR258: 8, AR250: 8, AR236: 8, AR297: 8.	

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

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1466	HMSHB42	792385	1476	1556 - 1567	4073		AR211: 3, AR312: 3, AR195: 3, AR247: 3, AR199: 3, AR210: 3, AR316: 3, AR216: 3, AR207: 3, AR226: 3, AR060: 3, AR237: 3, AR203: 3, AR253: 3, AR239: 3, AR218: 3, AR308: 3, AR219: 3, AR277: 2, AR232: 2, AR225: 2, AR309: 2, AR217: 2, AR171: 2, AR033: 2, AR212: 2, AR227: 2, AR168: 2, AR055: 2, AR230: 2, AR222: 2, AR061: 2, AR254: 1 L0766: 7, L0769: 4, L0747: 4, L0758: 4, H0251: 3, L0805: 3, S0007: 2, S0414: 2, H0644: 2, H0672: 2, S0026: 2, H0686: 1, H0713: 1, H0663: 1, S0376: 1, S0360: 1, S0046: 1, L0717: 1, H0574: 1, H0486: 1, H0427: 1, H0596: 1, L0040: 1, L0738: 1, H0046: 1, H0571: 1, L0471: 1, S0051: 1, H0510: 1, S0003: 1, S0214: 1, H0674: 1, H0708: 1, H0038: 1, H0412: 1, H0646: 1, S0002: 1, L0773: 1, L0662: 1, L0767: 1, L0794: 1, L0804: 1, L0806: 1, L0776: 1, L0606: 1, L0783: 1, L0792: 1, L0665: 1, H0660: 1, H0648: 1, H0521: 1, H0555: 1, L0743: 1, L0756: 1, L0777: 1, L0755: 1, L0759: 1, S0031: 1, L0362: 1, H0542: 1 and H0543: 1.	3p21-p13	139330, 139360, 150250, 156845,
							H0090: 7, L0803: 6, L0752: 6, L0748: 5, S0360: 4, H0622:		

1467	HMSHB42	600401	1477	182 - 283	4074	<p>4, L0749; 4, H0038; 3, S0002; 3, L0794; 3, L0804; 3, L0663; 3, H0539; 3, L0777; 3, H0543; 3, H0052; 2, H0046; 2, L0764; 2, L0774; 2, L0784; 2, L0805; 2, L0809; 2, L0789; 2, L0666; 2, H0144; 2, S0380; 2, H0521; 2, L0439; 2, L0756; 2, L0758; 2, H0423; 2, H0170; 1, H0265; 1, H0556; 1, S0134; 1, H0306; 1, H0638; 1, S0376; 1, H0393; 1, H0550; 1, H0438; 1, H0486; 1, H0427; 1, H0581; 1, H0596; 1, H0123; 1, H0050; 1, T0010; 1, H0375; 1, H0266; 1, H0039; 1, H0163; 1, H0591; 1, H0616; 1, H0056; 1, H0560; 1, H0652; 1, L0598; 1, L0763; 1, L0770; 1, L0769; 1, L0638; 1, L4747; 1, L0667; 1, L0766; 1, L0776; 1, L0639; 1, L0542; 1, L0647; 1, L2269; 1, L0664; 1, S0126; 1, H0690; 1, H0682; 1, H0659; 1, H0648; 1, H0518; 1, H0436; 1, H0478; 1, L0745; 1, L0779; 1, L0753; 1, L0759; 1, L0594; 1 and H0422; 1.</p>	<p>156845, 156845, 164500, 182280, 600151, 600163, 600971, 601226, 601267, 601373</p>
						<p>3p21-p13</p> <p>139330, 139360, 150250, 156845, 156845, 156845, 164500, 182280, 600151, 600163, 600971, 601226, 601267, 601373</p>	

1468	HMSHN72	855917	1478	84 - 197	4075		1, H0550: 1, H0438: 1, H0486: 1, H0427: 1, H0581: 1, H0596: 1, H0123: 1, H0050: 1, T0010: 1, H0375: 1, H0266: 1, H0039: 1, H0163: 1, H0591: 1, H0616: 1, H0056: 1, H0560: 1, H0652: 1, L0598: 1, L0763: 1, L0770: 1, L0769: 1, L0638: 1, L4747: 1, L0667: 1, L0766: 1, L0776: 1, L0659: 1, L0542: 1, L0647: 1, L2269: 1, L0664: 1, S0126: 1, H0690: 1, H0682: 1, H0659: 1, H0648: 1, H0518: 1, H0436: 1, H0478: 1, L0745: 1, L0779: 1, L0753: 1, L0759: 1, L0594: 1 and H0422: 1.		
1469	HMSHT29	825459	1479	488 - 604	4076	Met-1 to Lys-8.	S0002: 2, L0770: 2, L0748: 2, L0746: 2, H0402: 1, H0580: 1, H0581: 1, L0598: 1, L0645: 1, L0662: 1, L0794: 1, L0804: 1, L0806: 1, L0776: 1, L0657: 1, S0052: 1, H0648: 1, L0731: 1, H0445: 1 and L0603: 1.		17
1470	HMSHW73	704099	1480	57 - 125	4077		AR060: 6, AR316: 5, AR089: 3 S0002: 1 and L0749: 1. S0002: 2, S0114: 1 and S0426: 1.		
1471	HMSIC48	825462	1481	271 - 309	4078		H0050: 2 and S0002: 2.		
1472	HMSIT36	825453	1482	222 - 383	4079	Pro-16 to Ala-30.	S0002: 1		
1473	HMSIT42	581070	1483	164 - 358	4080	Tyr-57 to Ser-64.	AR313: 53, AR241: 39, AR229: 27, AR096: 23, AR184: 23, AR240: 22, AR089: 20, AR219: 20, AR198: 19, AR182: 19, AR238: 19, AR185: 19, AR299: 18, AR269: 18, AR218: 18, AR258: 18, AR247: 18, AR300: 17.		

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ARI92: 17, AR270: 16, AR204: 16, AR237: 15, AR293: 15, AR312: 15, AR226: 15, AR268: 15, AR175: 14, AR233: 14, AR243: 14, AR060: 14, ARI77: 14, AR316: 14, AR186: 13, AR271: 13, AR231: 13, AR183: 13, AR234: 12, AR227: 12, AR296: 12, AR179: 12, AR039: 12, AR248: 11, AR275: 11, AR292: 11, AR244: 11, AR253: 10, AR194: 10, AR290: 10, AR249: 10, AR285: 10, AR265: 10, AR282: 10, AR052: 10, AR274: 10, AR259: 9, AR104: 9, AR033: 9, AR267: 9, AR277: 9, AR294: 9, AR053: 9, AR314: 9, AR251: 9, AR273: 8, AR298: 8, AR315: 8, AR286: 8, AR246: 8, AR213: 7, AR280: 7, AR256: 7, AR289: 7, AR206: 7, AR291: 6, AR266: 6, AR310: 6, AR309: 6, AR232: 6, AR295: 6, AR284: 5, AR205: 5, AR263: 5, AR055: 4, AR061: 4, AR281: 4, AR283: 3, AR202: 3 S0140: 2, L0766: 2, L0754: 2, S0376: 1, H0580: 1, H0036: 1, S0050: 1, S0002: 1, L0598: 1, L0651: 1, L0663: 1, H0710: 1, H0694: 1, L0756: 1 and
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1474	HMSIB08	877651	1484	141 - 257	4081	10779: 1. AR231: 8, AR180: 5, AR250: 5, AR096: 5, AR039: 5, AR264: 4, AR181: 4, AR282: 4, AR190: 4, AR053: 4, AR263: 4, AR205: 4, AR266: 4, AR252: 4, AR299: 4, AR272: 4, AR229: 4, AR212: 4, AR199: 4, AR178: 4, AR311: 4, AR183: 4, AR271: 4, AR169: 3, AR312: 3, AR308: 3, AR224: 3, AR191: 3, AR173: 3, AR161: 3, AR165: 3, AR163: 3, AR162: 3, AR164: 3, AR175: 3, AR166: 3, AR269: 3, AR179: 3, AR195: 3, AR168: 3, AR174: 3, AR268: 3, AR287: 3, AR242: 3, AR221: 3, AR225: 3, AR189: 3, AR177: 3, AR270: 3, AR288: 3, AR185: 3, AR210: 3, AR291: 3, AR188: 3, AR207: 2, AR197: 2, AR295: 2, AR236: 2, AR223: 2, AR277: 2, AR200: 2, AR262: 2, AR293: 2, AR104: 2, AR203: 2, AR274: 2, AR309: 2, AR285: 2, AR267: 2, AR300: 2, AR286: 2, AR176: 2, AR233: 2, AR283: 2, AR171: 2, AR250: 2, AR226: 2, AR294: 2.		
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1475	HMSJ169	759982	1485	132 - 197	4082			AR201: 2, AR246: 2, AR182: 2, AR297: 2, AR247: 2, AR055: 2, AR196: 2, AR172: 2, AR289: 2, AR261: 2, AR258: 2, AR290: 2, AR240: 2, AR228: 2, AR227: 2, AR193: 2, AR061: 2, AR294: 2, AR237: 2, AR234: 2, AR275: 2, AR239: 2, AR257: 2, AR313: 2, AR232: 2, AR216: 2, AR089: 2, AR238: 2, AR033: 1, AR213: 1, AR296: 1, AR060: 1, AR255: 1, AR218: 1, AR211: 1, AR219: 1, S0408: 3, H0591: 2, S0037: 2, L0748: 2, L0777: 2, H0556: 1, H0222: 1, S0132: 1, H0497: 1, H0069: 1, H0581: 1, H0596: 1, T0110: 1, H0439: 1, H0356: 1, H0375: 1, H0266: 1, H0687: 1, H0290: 1, S0214: 1, H0622: 1, H0412: 1, S0440: 1, S0002: 1, L0646: 1, L0768: 1, L0766: 1, L0375: 1, L0659: 1, S0374: 1, H0710: 1, H0518: 1, L0749: 1 and H0445: 1.
1476	HMSJM20	747684	1486	264 - 344	4083			S0002: 1 S0002: 1, L0779: 1 and L0758: 1.
1477	HMSJR44	638098	1487	88 - 120	4084			AR089: 65, AR316: 47, AR060: 30 L0740: 2 and S0002: 1.
1478	HMSKQ91	825450	1488	147 - 356	4085			S0002: 1
1479	HMSKY45	747708	1489	93 - 185	4086			S0134: 1, H0560: 1, S0002:

1480	HMTAB92	740784	1490	1554 - 1649	4087		1, L0748: 1 and L0749: 1. AR089: 3, AR316: 3, AR060: 2 L0439: 7, L0483: 4, H0457: 3, H0518: 3, L0748: 3, L0608: 3, L0362: 3, H0090: 2, L0667: 2, L0662: 2, L0766: 2, L0776: 2, L0749: 2, L0771: 2, L0758: 2, H0624: 1, S0134: 1, H0583: 1, H0656: 1, S0116: 1, H0341: 1, S0418: 1, S0442: 1, S0358: 1, S0360: 1, S0476: 1, H0619: 1, H0635: 1, H0575: 1, H0590: 1, L0471: 1, H0271: 1, H0428: 1, L0055: 1, H0032: 1, H0591: 1, H0634: 1, T0042: 1, H0494: 1, H0561: 1, H0509: 1, S0426: 1, L0763: 1, L0770: 1, L0372: 1, L0646: 1, L0374: 1, L0794: 1, L0803: 1, L0806: 1, L0805: 1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, H0547: 1, H0696: 1, S0027: 1, L0754: 1, L0731: 1, H0595: 1, L0596: 1, H0668: 1, S0026: 1, H0543: 1, L0465: 1, S0424: 1 and H0352: 1.	151670, 600374, 601780
1481	HMTAT36	811885	1491	198 - 338	4088		S0442: 6, L0777: 6, L0731: 5, L0775: 4, H0024: 3, H0586: 2, H0648: 2, H0521: 2, L0748: 2, H0638: 1, S0358: 1, S0376: 1, S0360: 1, H0587: 1, H0641: 1, H0646: 1, L0770: 1, L0643: 1, L0363: 1, L0803: 1, L0804: 1, L0783: 1, L0787: 1, L0666: 1, L0665: 1, H0593: 1, H0518: 1, S0406: 1 and L0779: 1.	
1482	HMTUAB93	822909	1492	200 - 304	4089		L0748: 4, H0687: 2, L0527: 2, S0282: 1, H0661: 1, S0045: 1, H0013: 1, H0012: 1, S0036: 1, H0529: 1, L0770: 1, L0766: 1.	

1483	HMUAD65	809097	1493	209 - 307	4090	1, L0803: 1, L0805: 1, L0809: 1, L0666: 1, H0638: 1, H0521: 1, L0747: 1 and L0779: 1, H0560: 1, H0529: 1 and H0542: 1, L0804: 5, L0766: 4, L0777: 4, H0638: 3, L0770: 3, L0794: 3, L0803: 3, L0805: 3, L0599: 3, H0716: 2, S0212: 2, H0046: 2, H0413: 2, H0623: 2, H0641: 2, S0422: 2, H0529: 2, S0374: 2, L0754: 2, L0779: 2, L0759: 2, L0596: 2, S0418: 1, L0005: 1, S0356: 1, S0358: 1, S0007: 1, H0333: 1, H0574: 1, H0486: 1, H0013: 1, H0599: 1, H0042: 1, L0471: 1, H0051: 1, S0628: 1, S0003: 1, H0428: 1, H0616: 1, T0041: 1, H0560: 1, H0646: 1, L0646: 1, L0651: 1, L0806: 1, L0652: 1, L0809: 1, L0787: 1, L0789: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, H0520: 1, H0522: 1, S0188: 1, S0146: 1 and S0031: 1, AR089: 8, AR316: 7, AR060: 6, L0439: 11, L0747: 11, L0731: 8, L0769: 7, S0474: 6, L0758: 6, S0360: 5, H0521: 5, L0779: 5, L0766: 4, L0659: 4, S0003: 3, L0775: 3, L0653: 3, L0438: 3, L0748: 3, S0050: 2, S0426: 2, L0667: 2, L0375: 2, L0805: 2, L0783: 2, S0328: 2, L0754: 2, L0757: 2, L0591: 2, L0599: 2, S0410: 1, H0580: 1, S0007: 1, H0391: 1, S0049: 1, H0231: 1, H0545: 1, H0024: 1, S0388: 1, S0051: 1, H0067: 1, 256731, 602085	
1484	HMUAT23	897758	1494	30 - 131	4091	13q21.2-13q22.1	
1485	HMUBA47	786380	1495	1074 - 1154	4092	18p11.3	142946

1486	HMUBJ22	824071	1496	201 - 299	4093			H0328: 1, H0644: 1, H0616: 1, H0435: 1, S0002: 1, H0529: 1, L0770: 1, L0796: 1, L0373: 1, L0643: 1, L0764: 1, L0771: 1, L0662: 1, L0768: 1, L0647: 1, L0666: 1, L0665: 1, H0648: 1, H0672: 1, S0044: 1, L0751: 1, L0749: 1, L0756: 1, L0759: 1, S0260: 1, H0445: 1, S0434: 1, S0276: 1, S0458: 1 and . H0506: 1.	
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1487	HMUBK53	553624	1497	247 - 606	4094	Ser-33 to Arg-42, Ser-51 to Ser-56, Asn-109 to Phe-119.		AR202: 87, AR039: 71, AR194: 63, AR244: 62, AR205: 60, AR246: 58, AR206: 58, AR241: 51, AR192: 46, AR198: 43, AR263: 43, AR243: 43, AR204: 41, AR271: 40, AR213: 37, AR232: 36, AR310: 35, AR275: 34, AR265: 34, AR053: 33, AR274: 30, AR104: 28, AR295: 28, AR251: 27, AR284: 27, AR273: 26, AR266: 25, AR309: 24, AR177: 24, AR289: 23, AR240: 23, AR291: 23, AR282: 22, AR312: 22, AR096: 22, AR299: 22, AR270: 21, AR316: 21, AR285: 20, AR296: 19,	8

1488	HMUBN24	647633	1498	272 - 325	4095		AR218: 19, AR227: 19, AR033: 19, AR238: 19, AR052: 19, AR277: 18, AR313: 18, AR231: 18, AR256: 17, AR247: 17, AR226: 17, AR234: 17, AR237: 16, AR175: 16, AR183: 16, AR089: 16, AR182: 15, AR268: 15, AR292: 15, AR060: 14, AR186: 14, AR269: 14, AR286: 14, AR185: 14, AR219: 14, AR298: 14, AR258: 13, AR253: 13, AR229: 13, AR233: 12, AR293: 12, AR290: 12, AR294: 12, AR259: 12, AR267: 10, AR184: 10, AR248: 10, AR300: 10, AR179: 9, AR061: 9, AR055: 8, AR249: 8, AR283: 6 H0553: 3, S0414: 2, H0031: 2, H0625: 2, H0529: 2, S0126: 2, L0742: 2, L0439: 2, L0779: 2, H0656: 1, S0222: 1, H0333: 1, S0010: 1, H0050: 1, T0010: 1, H0266: 1, S0318: 1, S0316: 1, S0003: 1, H0428: 1, H0551: 1, H0100: 1, S0344: 1, L0766: 1, L0805: 1, L0665: 1, H0144: 1, H0690: 1, H0670: 1, S0380: 1, L0756: 1, L0731: 1 and H0423: 1.					
1488	HMUBN24	647633	1498	272 - 325	4095		AR060: 1 H0529: 2	13q34	153900, 180381, 227500, 227600, 238970			
1489	HMUBO15	597434	1499	120 - 290	4096		AR089: 21, AR316: 16, AR060: 12 L0756: 4, L0662: 3, L0748: 3, L0598: 2, L0805: 2, L0731:					

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1490	HMUBX48	847412	1500	256 - 325	4097		H0040: 2 and H0529: 1, L0734: 4, S0358: 2, H0529: 2, L0766: 2, H0518: 2, L0751: 2, L0601: 2, H0556: 1, H0485: 1, H0318: 1, H0421: 1, S0250: 1, H0032: 1, H0494: 1, L0598: 1, L0776: 1, L0782: 1, H0547: 1, H0689: 1, S0152: 1, S0104: 1, L0747: 1, L0759: 1 and L0596: 1.			
1491	HMUBY57	844800	1501	1085 - 1177	4098					
1492	HMUBZ15	609837	1502	137 - 259	4099	Leu-11 to Ala-21, Glu-34 to Ala-39.	AR060: 12, AR089: 16, AR316: 14, H0038: 9, L0766: 8, L0758: 8, L0769: 7, H0024: 5, L0774: 5, S0358: 4, L0776: 4, L0744: 4, L0740: 4, L0759: 4, S0360: 3, H0208: 3, H0618: 3, H0083: 3, H0424: 3, L0770: 3, L0771: 3, L0663: 3, L0748: 3, L0747: 3, T0002: 2, S0134: 2, H0650: 2, H0656: 2, H0333: 2, L0157: 2, H0200: 2, H0039: 2, H0617: 2, H0616: 2, H0529: 2, L0763: 2, L0772: 2, L0764: 2, L0662: 2, L0809: 2, S0126: 2, H0658: 2, H0522: 2, H0696: 2, L0750: 2, L0590: 2, L0601: 2, H0265: 1, H0556: 1, S0040: 1, S0114: 1, H0657: 1, S0116: 1, H0341: 1, H0484: 1, H0254: 1, H0661: 1, S0444: 1, H0637: 1, H0580: 1, S0007: 1, S0045: 1, S0046: 1.	3p21.2-24.2	154705, 168468, 182280, 227646, 238310, 600163, 601154, 601226	

1493	HMVAL15	822860	1503	385 - 495	4100	<p>1, H0619: 1, H0351: 1, S0278: 1, S0222: 1, H0574: 1, S0280: 1, H0253: 1, H0318: 1, H0581: 1, S0049: 1, H0209: 1, H0597: 1, H0546: 1, H0373: 1, S0320: 1, H0355: 1, H0266: 1, H0188: 1, H0033: 1, H0405: 1, H0644: 1, S0036: 1, H0087: 1, H0396: 1, H0641: 1, S0142: 1, L0796: 1, L0773: 1, L0648: 1, L0521: 1, L0768: 1, L0387: 1, L0775: 1, L0375: 1, L0806: 1, L0540: 1, L0542: 1, L0783: 1, S0374: 1, H0520: 1, H0682: 1, H0539: 1, S0378: 1, S0152: 1, H0134: 1, H0187: 1, L0742: 1, L0743: 1, L0779: 1, L0755: 1, S0260: 1, L0581: 1, H0668: 1 and L0600: 1.</p> <p>L0803: 5, L0750: 4, H0650: 3, H0656: 3, L0766: 3, L0747: 3, T0002: 2, H0486: 2, L0761: 2, L0774: 2, L0657: 2, L0666: 2, H0547: 2, L0754: 2, S0212: 1, H0255: 1, H0305: 1, H0589: 1, S0360: 1, H0550: 1, H0042: 1, S0010: 1, H0286: 1, H0553: 1, H0644: 1, L0055: 1, L0667: 1, L0764: 1, L0782: 1, L0783: 1, L0809: 1, H0519: 1, H0670: 1, L0779: 1, L0771: 1, L0752: 1, L0757: 1, L0759: 1, L0588: 1, L0592: 1, H0677: 1 and H0352: 1.</p> <p>AR089: 3, AR316: 2, AR060: 2</p> <p>S0212: 1, S0408: 1, S0222: 1 and H0357: 1.</p> <p>L0745: 6, S0360: 4, S0440: 2, H0341: 1, S0212: 1, L0717: 2,</p>	
1494	HMVBC84	743191	1504	69 - 191	4101		
1495	HMVBC68	831130	1505	467 - 535	4102		

1496	HMVCG17	846161	1506	253 - 450	4103	Thr-28 to Lep-34, Pro-36 to Tyr-47.	AR060: 11 L0766: 4, L0775: 3, L0803: 2, S0212: 1, L0763: 1, L0637: 1, L0764: 1, L0794: 1, L0751: 1, L0754: 1 and L0759: 1. AR089: 17, AR316: 14, AR060: 11 L0766: 4, L0775: 3, L0803: 2, S0212: 1, L0763: 1, L0637: 1, L0764: 1, L0794: 1, L0751: 1, L0754: 1 and L0759: 1.	1, H0587: 1, H0497: 1, H0574: 1, H0687: 1, H0428: 1, S0422: 1, L0667: 1, L0645: 1, L0662: 1, L0768: 1, L0649: 1, L0518: 1, H0435: 1, S0380: 1, H0518: 1, L0754: 1, L0746: 1, S0434: 1, L0592: 1 and S0424: 1.		
1497	HMVCS92	842832	1507	323 - 427	4104		AR089: 1, AR060: 1 L0766: 3, L0758: 3, H0615: 2, L0805: 2, L0748: 2, L0754: 2, L0749: 2, S0212: 1, H0042: 1, H0597: 1, S0003: 1, L0520: 1, S0330: 1, L0750: 1, L0777: 1, L0752: 1, S0260: 1 and H0444: 1.			
1498	HMVCS92	846141	1508	323 - 466	4105		AR089: 1, AR060: 1 L0766: 3, L0758: 3, H0615: 2, L0805: 2, L0748: 2, L0754: 2, L0749: 2, S0212: 1, H0042: 1, H0597: 1, S0003: 1, L0520: 1, S0330: 1, L0750: 1, L0777: 1, L0752: 1, S0260: 1 and H0444: 1.			
1499	HMVDB45	852147	1509	179 - 187	4106		L0438: 4, L0439: 2, L0749: 2, L0756: 2, S0212: 1, L0717: 1, L0662: 1, L0649: 1, L0805: 1, L0787: 1 and L0758: 1.			
1500	HMVDJ71	863508	1510	332 - 589	4107	Pro-39 to Tyr-45, Pro-47 to Pro-54.	AR291: 10, AR183: 10, AR184: 9, AR296: 8, AR293: 8, AR292: 8, AR298: 8, AR313: 7, AR285: 6, AR289: 6, AR275: 6, AR238: 6.	20		

1501	HMV/DT89	831127	1511	2 - 433	4108	Gln-23 to Leu-34, Asp-45 to Arg-60.	<p>1, H0686: 1, S0040: 1, H0650: 1, L0778: 1, S0212: 1, S0282: 1, H0255: 1, S0420: 1, S0360: 1, S0007: 1, H0411: 1, H0370: 1, H0392: 1, H0438: 1, H0013: 1, H0575: 1, H0122: 1, S0010: 1, H0581: 1, H0123: 1, S0388: 1, H0071: 1, H0266: 1, H0687: 1, L0055: 1, H0673: 1, S0036: 1, H0163: 1, H0412: 1, H0623: 1, T0041: 1, L0640: 1, L0763: 1, L0638: 1, L0800: 1, L0645: 1, L0771: 1, L0364: 1, L0794: 1, L0803: 1, L0659: 1, L0791: 1, L0666: 1, H0520: 1, H0593: 1, H0660: 1, S0378: 1, S0152: 1, L0439: 1, L0777: 1, H0445: 1, S0011: 1 and S0242: 1.</p> <p>AR060: 2, AR316: 2, AR089: 2 L0752: 24, L0751: 7, L0748: 6, L0777: 6, L0775: 5, L0742: 5, L0749: 5, S0358: 4, L0776: 4, L0756: 4, S0376: 3, L0757: 3, S0212: 2, S0444: 2, S0010: 2, L0770: 2, L0764: 2, L0773: 2, L0774: 2, H0519: 2, L0743: 2, L0740: 2, L0731: 2, L0758: 2, L0604: 2, L0603: 2, S0298: 1, H0661: 1, S0442: 1, S0354: 1, S0360: 1, S0408: 1, H0632: 1, H0156: 1, H0421: 1, H0196: 1, H0052: 1, L0738: 1, H0009: 1, L0471: 1, H0239: 1, S0003: 1, T0067: 1, H0413: 1, H0059: 1, S0438: 1, S0440: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0804: 1, L0375: 1, L0806: 1, L0783: 1, S0374: 1, H0659: 1, S0328: 1, S0152: 1, S0404:</p>			
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1502	HMVD789	875313	1512	285 - 326	4109		<p>1, S0406: 1, S0027: 1, L0439: 1, L0779: 1, L0753: 1, L0755: 1, L0759: 1 and S0242: 1.</p> <p>AR060: 2, AR316: 2, AR089: 2</p> <p>L0752: 24, L0751: 7, L0748: 6, L0777: 6, L0775: 5, L0742: 5, L0749: 5, S0358: 4, L0776: 4, L0756: 4, S0376: 3, L0757: 3, S0212: 2, S0444: 2, S0010: 2, L0770: 2, L0764: 2, L0773: 2, L0774: 2, H0519: 2, L0743: 2, L0740: 2, L0731: 2, L0758: 2, L0604: 2, L0603: 2, S0298: 1, H0661: 1, S0442: 1, S0354: 1, S0360: 1, S0408: 1, H0632: 1, H0156: 1, H0421: 1, H0196: 1, H0052: 1, L0738: 1, H0069: 1, L0471: 1, H0239: 1, S0003: 1, T0067: 1, H0413: 1, H0059: 1, S0438: 1, S0440: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0804: 1, L0375: 1, L0806: 1, L0783: 1, S0374: 1, H0659: 1, S0328: 1, S0152: 1, S0404: 1, S0406: 1, S0027: 1, L0439: 1, L0779: 1, L0753: 1, L0755: 1, L0759: 1 and S0242: 1.</p>	
1503	HMVAO65	839268	1513	340 - 420	4110		<p>AR060: 12, AR316: 11, AR089: 10</p> <p>H0341: 6, S0358: 5, S0142: 4, H0543: 3, H0423: 3, H0638: 2, S0344: 2, S0422: 2, S0404: 2, H0556: 1, S0116: 1, H0663: 1, S0444: 1, S0360: 1, H0580: 1, S0045: 1, S0278: 1, H0592: 1, H0596: 1, H0009: 1, L0471: 1, H0083: 1, H0060: 1, S0003: 1, H0615: 1, H0090: 1, H0040: 1, H0063: 1, H0412: 1, H0494: 1.</p>	

1504	HMWA082	825427	1514	72 - 194	4111	Arg-19 to Gln-24, Cys-33 to Lys-38.			1, H0561: 1, S0440: 1, H0641: 1, L0520: 1, L0766: 1, S0374: 1, H0659: 1, H0660: 1, H0672: 1, H0539: 1, H0710: 1, S0152: 1, S0044: 1, S0146: 1, L0740: 1, L0759: 1, S0242: 1 and S0194: 1.
1505	HMWBD74	711155	1515	410 - 472	4112	Gln-15 to Gln-20.			AR060: 12, AR316: 11, AR089: 10 S0412: 14, L0439: 11, L0471: 7, L0662: 5, L0731: 5, H0341: 4, H0009: 4, L0776: 4, L0438: 4, L0777: 4, S0360: 3, H0392: 3, H0251: 3, H0551: 3, L0794: 3, L0805: 3, L0657: 3, L0809: 3, L0666: 3, S0328: 3, H0696: 3, L0759: 3, H0656: 2, S0007: 2, H0600: 2, H0024: 2, H0014: 2, H0252: 2, L0483: 2, H0040: 2, S0426: 2, L0598: 2, H0529: 2, L0769: 2, L0637: 2, L0649: 2, L0639: 2, L0664: 2, L0665: 2, L0565: 2, H0547: 2, H0659: 2, H0670: 2, H0666: 2, L0743: 2, L0744: 2, L0748: 2, L0750: 2, S0192: 2, S0242: 2, S0196: 2, H0170: 1, S0040: 1, H0583: 1, H0402: 1, L0005: 1, S0354: 1, S0444: 1, H0637: 1, S0622: 1, H0550: 1, H0427: 1, L2250: 1, H0596: 1, H0327: 1, H0546: 1, H0545: 1, H0046: 1, L0157: 1, H0563: 1, H0564: 1, H0123: 1, H0375: 1, H0687: 1, S0312: 1, S0314: 1, H0553: 1, H0412: 1, H0494: 1, H0560: 1, S0438: 1, L0520: 1, L0770: 1, L0638: 1, L5575: 1, L0761: 1,

									L0772: 1, L0764: 1, L0773: 1, L0768: 1, L0375: 1, L0655: 1, L0527: 1, L0532: 1, L0663: 1, H0690: 1, H0682: 1, H0660: 1, S0330: 1, H0539: 1, S0152: 1, H0436: 1, H0631: 1, S3012: 1, S0037: 1, S3014: 1, L0741: 1, L0740: 1, L0754: 1, L0747: 1, L0786: 1, L0779: 1, L0755: 1, L0758: 1, H0444: 1, H0445: 1, H0343: 1, S0434: 1, L0608: 1 and L0366: 1.	
1506	HMWBK35	566888	1516	194 - 385	4113	Leu-52 to Cys-59.	AR089: 21, AR316: 16, AR060: 12			
							L0471: 2, H0038: 2, H0268: 2, H0556: 1, S0402: 1, H0341: 1, H0392: 1, H0486: 1, H0598: 1, L0633: 1, L0527: 1, L0517: 1, S0152: 1 and H0444: 1.			
1507	HMWBK86	654856	1517	268 - 288	4114		H0341: 1 and H0100: 1.			
1508	HMWBL38	602940	1518	31 - 132	4115		H0341: 1 and H0593: 1.			
1509	HMWBM48	566828	1519	11 - 52	4116		L0747: 9, L0748: 5, L0749: 5, H0090: 4, H0341: 3, H0413: 3, L0768: 3, L0766: 3, L0779: 3, L0758: 3, H0265: 2, S0040: 2, S0356: 2, H0351: 2, H0050: 2, S0003: 2, H0615: 2, H0553: 2, H0169: 2, S0422: 2, L0763: 2, L0770: 2, L0363: 2, L0649: 2, L0789: 2, L0665: 2, L0438: 2, L0439: 2, L0753: 2, L0593: 2, H0542: 2, H0624: 1, H0556: 1, H0686: 1, H0650: 1, H0657: 1, H0484: 1, H0669: 1, S0420: 1, S0046: 1, H0619: 1, L0717: 1, H0549: 1, H0370: 1, H0331: 1, H0427: 1, H0318: 1, H0581: 1, H0596: 1, H0046: 1, H0457: 1, H0086: 1, L0471: 1, H0024: 1, T0010: 1, H0083: 1, H0355: 1.	3q21-q23	106165, 110100, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682	

1510	HMWCG28	847413	1520	78 - 200	4117						1, S0338: 1, S0340: 1, H0328: 1, H0039: 1, H0048: 1, T0006: 1, S0366: 1, H0135: 1, H0038: 1, H0616: 1, H0063: 1, H0412: 1, H0494: 1, H0560: 1, L0065: 1, H0641: 1, H0529: 1, L0369: 1, L0639: 1, L0772: 1, L0642: 1, L0771: 1, L0521: 1, L0662: 1, L0381: 1, L0650: 1, L0775: 1, L0776: 1, L0661: 1, L0659: 1, L0526: 1, L0382: 1, L0368: 1, L0666: 1, L0663: 1, S0374: 1, H0520: 1, H0519: 1, H0659: 1, H0658: 1, H0660: 1, H0539: 1, H0579: 1, H0521: 1, S0044: 1, H0555: 1, L0741: 1, L0754: 1, L0746: 1, L0750: 1, L0756: 1, L0777: 1, L0780: 1, L0752: 1, H0343: 1, H0707: 1, S0434: 1, L0594: 1, S0026: 1, S0192: 1 and H0423: 1. L0439: 19, L0740: 16, L0748: 15, L0766: 12, H0052: 7, L0761: 7, L0741: 7, L0747: 7, H0135: 6, L0769: 6, L0438: 6, S0036: 4, L0770: 4, L0806: 4, L0752: 4, L0731: 4, H0327: 3, H0012: 3, T0010: 3, L0794: 3, L0803: 3, L0783: 3, L0809: 3, L0744: 3, L0758: 3, L0601: 3, H0341: 2, H0550: 2, H0333: 2, L0622: 2, H0599: 2, H0618: 2, H0318: 2, H0051: 2, S0388: 2, S0051: 2, H0100: 2, L0772: 2, L0774: 2, L0664: 2, S0380: 2, L0751: 2, L0745: 2, L0779: 2, L0777: 2, L0753: 2, L0485: 2, H0265: 1, H0381: 1, H0483: 1, S0418: 1, S0354: 1, S0444: 1, S0360: 1, S0046: 1, S0278:	12p13.3	103950, 193100, 193400, 200990, 601458
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1511	HMWCP85	757974	1521	116 - 160	4118		1, H0261: 1, H0455: 1, H0438: 1, H0574: 1, H0559: 1, L0623: 1, H0706: 1, T0048: 1, H0581: 1, H0231: 1, H0597: 1, H0544: 1, H0046: 1, H0457: 1, H0009: 1, H0081: 1, H0620: 1, H0200: 1, H0095: 1, H0275: 1, H0083: 1, H0354: 1, H0266: 1, H0328: 1, H0428: 1, H0070: 1, T0023: 1, H0673: 1, H0124: 1, H0038: 1, H0087: 1, L0351: 1, L0564: 1, H0560: 1, H0130: 1, S0344: 1, L0369: 1, L0763: 1, L0637: 1, L5575: 1, L5565: 1, L3905: 1, L0667: 1, L0641: 1, L0645: 1, L0764: 1, L0775: 1, L0376: 1, L0776: 1, L0606: 1, L0659: 1, L0789: 1, L0666: 1, L0663: 1, L0665: 1, H0693: 1, H0547: 1, H0660: 1, H0539: 1, S0044: 1, H0436: 1, L0742: 1, L0749: 1, L0755: 1, L0759: 1, S0031: 1, S0260: 1, H0445: 1, H0707: 1, S0434: 1, L0581: 1, L0593: 1, S0194: 1, H0543: 1, H0423: 1 and H0506: 1. AR060: 2, AR316: 1 H0341: 1, S0410: 1, H0393: 1, H0519: 1 and S0308: 1.	5q31.2-q31.3	131400, 153455, 159000, 180071, 181460, 272750, 600807, 601596, 602089
1512	HMWDG30	623758	1522	3 - 623	4119	Trp-15 to Gly-21, Glu-32 to Phe-44, Asn-59 to Ala-65, Ser-73 to Asp-78, Glu-99 to Tyr-105, Glu-124 to Thr-130, Lys-138 to Val-148.	L0766: 10, L0794: 5, L0789: 3, H0543: 3, S0372: 2, L0805: 2, L0777: 2, H0668: 2, H0656: 1, H0341: 1, H0663: 1, S0376: 1, H0580: 1, H0586: 1, H0587: 1, H0046: 1, L0761: 1, L0662: 1, L0803: 1, L0663: 1, L0748: 1, L0750: 1, L0779: 1, L0731: 1, L0759: 1, H0445: 1 and		

1513	HMWDU20	695743	1523	92 - 193	4120	H0542: 1. H0580: 3, H0551: 2, H0656: 1, H0341: 1, S0212: 1, S0282: 1, H0125: 1, H0431: 1, H0458: 1, H0586: 1, H0069: 1, H0635: 1, H0052: 1, H0050: 1, H0375: 1, H0553: 1, H0090: 1, H0616: 1, H0623: 1, S0038: 1, S0126: 1, L0748: 1, L0777: 1 and H0542: 1.		
1514	HMWDX57	610104	1524	127 - 153	4121	S0360: 2, H0657: 1, H0341: 1, H0497: 1, H0039: 1, H0087: 1, H0647: 1, L0768: 1, L0774: 1, L0741: 1, L0748: 1, L0777: 1 and L0755: 1.	1p33-p32	120260, 120950, 120960, 138140, 178300, 187040, 246450, 600101, 600650, 600650, 600722, 600722
1515	HMWDZ63	608146	1525	129 - 239	4122	Gly-17 to Trp-24, H0341: 1	Xq28	300031, 300044, 300048, 300049, 300049, 300055, 300100, 300100, 300104, 300126, 301201, 301590, 302060, 302060, 302060, 302060, 302960, 303700, 303800, 303900, 304800, 305900, 305900, 305900, 306700, 306995, 308310, 308840, 308840, 308840, 309200, 309548, 309620, 309900, 310300, 310400, 310460, 310460, 311300, 311510, 314300, 314400
1516	HMWEA77	839221	1526	213 - 302	4123	H0341: 1		
1517	HMWEC03	598902	1527	190 - 276	4124	Asp-21 to Glu-28, AR089: 80, AR 194: 65,	10	

[illegible]

1518	HMWEF46	825433	1528	71 - 256	4125		AR179: 3 L0766: 5, L0752: 5, L0769: 3, L0439: 3, L0749: 3, L0756: 3, H0013: 2, L0646: 2, L0655: 2, L0748: 2, L0777: 2, L0758: 2, H0650: 1, H0341: 1, S0418: 1, H0244: 1, L0021: 1, H0590: 1, H0083: 1, H0039: 1, H0111: 1, H0412: 1, T0042: 1, H0494: 1, H0561: 1, S0438: 1, H0529: 1, L0800: 1, L0794: 1, L0804: 1, L0639: 1, L0663: 1, L0458: 1, H0435: 1, S0152: 1, H0521: 1, H0522: 1, S014: 1, L0362: 1, H0542: 1, H0543: 1 and S0424: 1.		
1519	HMWEK43	847414	1529	126 - 221	4126		H0341: 2, L0529: 1 and L0792: 1.		
1520	HMWEM23	863105	1530	152 - 1165	4127	Ser-28 to Thr-35, Pro-67 to Arg-74, Thr-106 to Glu-115, Cys-128 to Asp-133, Arg-154 to Lys-162, Glu-164 to Cys-179, Ala-216 to Ala-225, Pro-248 to Pro-255, Thr-261 to Thr-273, Leu-307 to Arg-316, Gln-323 to Arg-328.	AR089: 13, AR060: 11, AR316: 11 L0803: 8, L0766: 7, S0408: 4, L0773: 3, L0804: 3, L0805: 3, H0615: 2, L0774: 2, L0745: 2, L0779: 2, L0758: 2, S0114: 1, H0341: 1, H0662: 1, S0418: 1, S0222: 1, H0486: 1, H0013: 1, H0581: 1, S0051: 1, H0038: 1, S0440: 1, L0800: 1, L0764: 1, L0771: 1, L0521: 1, L0768: 1, L0794: 1, L0806: 1, L0526: 1, L0789: 1, L0790: 1, L0792: 1, L4501: 1, L0663: 1, H0519: 1, S0380: 1, S0152: 1, H0696: 1, L0612: 1, L0756: 1, L0780: 1, L0752: 1 and H0543: 1.		
1521	HMWEM23	859387	1531	135 - 188	4128		AR089: 13, AR060: 11, AR316: 11 L0803: 8, L0766: 7, S0408: 4, L0773: 3, L0804: 3, L0805:		

1522	HMWER46	841527	1532	726 - 890	4129	Glu-48 to Thr-54.	<p>3, H0615: 2, L0774: 2, L0745: 2, L0779: 2, L0758: 2, S0114: 1, H0341: 1, H0662: 1, S0418: 1, S0222: 1, H0486: 1, H0013: 1, H0581: 1, S0051: 1, H0038: 1, S0440: 1, L0800: 1, L0764: 1, L0771: 1, L0521: 1, L0768: 1, L0794: 1, L0806: 1, L0526: 1, L0789: 1, L0790: 1, L0792: 1, L4501: 1, L0663: 1, H0519: 1, S0380: 1, S0152: 1, H0696: 1, L0612: 1, L0756: 1, L0780: 1, L0752: 1 and H0543: 1.</p> <p>AR089: 16, AR316: 15, AR060: 14</p> <p>L0748: 3, L0766: 2, L0809: 2, H0672: 2, S0206: 2, H0341: 1, H0661: 1, H0333: 1, H0051: 1, L0800: 1, L0747: 1, L0750: 1, L0755: 1, L0757: 1 and S0196: 1.</p>		
1523	HMWEU96	1310888	1533	224 - 310	4130		<p>AR089: 18, AR316: 13, AR060: 9</p> <p>L0766: 7, H0013: 6, L0471: 6, L0770: 5, L0439: 5, L0754: 5, H0521: 4, L0748: 4, L0777: 4, S0242: 4, H0171: 3, H0427: 3, L0794: 3, L0803: 3, L0532: 3, L0666: 3, L0665: 3, S0378: 3, H0555: 3, L0750: 3, L0752: 3, L0757: 3, H0170: 2, S0134: 2, H0656: 2, H0031: 2, H0551: 2, S0450: 2, L0662: 2, H0144: 2, S0266: 2, L0731: 2, L0759: 2, L0605: 2, L0592: 2, H0624: 1, S0256: 1, H0341: 1, S0001: 1, S0282: 1, H0661: 1, L0005: 1, S0356: 1, S0376: 1, S6026: 1, H0411: 1, H0586: 1, H0497: 1, H0574: 1, H0632: 1, H0486: 1.</p> <p>300300, 300300, 301201, 301835, 309300, 309605, 311850, 314200</p>		

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1524	HMWEX02	596821	1534	48 - 614	4131	5203	Thr-28 to Met-38, Glu-40 to Asp-51, Ser-53 to Lys-71, Ala-98 to Arg-103, Gln-106 to Asp-115, Ala-194 to Lys-201, Gly-255 to Lys-260, Asn-294 to Lys-299, Lys-317 to Gln-327.		
							AR089: 381, AR316: 298, AR060: 224 H0181: 2, H0617: 2, L0794: 2, H0593: 2, L0601: 2, H0341: 1, S0420: 1, H0559: 1, L0021: 1, H0188: 1, H0494: 1, L0776: 1, L0664: 1, H0547: 1, S0260: 1 and H0423: 1.		
1525	HMWFB65	638102	1535	29 - 79	4132		AR089: 14, AR060: 12, AR316: 10, AR186: 9, AR053: 7, AR055: 7, AR204: 7, AR206: 6, AR052: 6, AR273: 6, AR248: 6, AR313: 6,		

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[illegible]

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[illegible]

1529	HMWGM41	847415	1539	33 - 989	4136	Gly-53 to Gly-58, Phe-298 to Phe-303.	<p>H0013: 1, H0427: 1, S0280: 1, H0156: 1, H0097: 1, H0575: 1, H0036: 1, H0590: 1, H0253: 1, S0346: 1, H0318: 1, H0581: 1, H0196: 1, H0234: 1, H0596: 1, H0597: 1, H0231: 1, H0009: 1, N0006: 1, H0123: 1, L0471: 1, H0024: 1, H0014: 1, H0373: 1, H0051: 1, S0388: 1, H0083: 1, H0594: 1, H0292: 1, H0428: 1, H0604: 1, H0553: 1, H0628: 1, H0181: 1, H0606: 1, H0673: 1, H0169: 1, H0674: 1, H0163: 1, H0090: 1, T0067: 1, H0264: 1, H0412: 1, S0038: 1, S0386: 1, S0112: 1, L0564: 1, H0561: 1, S0142: 1, S0344: 1, L0769: 1, L0637: 1, L0761: 1, L0372: 1, L0374: 1, L0764: 1, L0648: 1, L0521: 1, L0626: 1, L0533: 1, L0803: 1, L0774: 1, L0376: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0529: 1, L0791: 1, L0666: 1, H0520: 1, H0547: 1, H0658: 1, H0666: 1, H0648: 1, S0380: 1, H0521: 1, H0522: 1, H0696: 1, H0436: 1, L0609: 1, S3012: 1, L0744: 1, L0745: 1, L0749: 1, L0755: 1, H0444: 1, L0480: 1, L0584: 1, L0595: 1, L0361: 1, S0011: 1, H0423: 1, H0422: 1, H0008: 1 and H0352: 1.</p>	4	<p>AR290: 9, AR246: 8, AR244: 8, AR273: 7, AR249: 7, AR060: 7, AR268: 6, AR313: 6, AR291: 6, AR033: 6, AR186: 6, AR055: 5, AR269: 5, AR202: 5.</p>
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SECRET

AR310: 5, AR312: 5, AR204: 5, AR282: 5, AR182: 5, AR192: 5, AR206: 5, AR267: 4, AR248: 4, AR289: 4, AR275: 4, AR052: 4, AR183: 4, AR061: 4, AR053: 4, AR205: 4, AR240: 4, AR175: 4, AR104: 4, AR219: 4, AR241: 4, AR185: 4, AR089: 4, AR243: 4, AR293: 4, AR316: 4, AR177: 4, AR213: 4, AR284: 4, AR296: 4, AR299: 4, AR198: 4, AR285: 4, AR286: 5, AR247: 3, AR253: 3, AR238: 3, AR096: 3, AR309: 3, AR226: 3, AR270: 3, AR295: 3, AR298: 3, AR184: 3, AR300: 3, AR266: 3, AR292: 3, AR039: 3, AR263: 3, AR277: 3, AR231: 3, AR237: 3, AR251: 3, AR274: 3, AR218: 3, AR234: 3, AR232: 2, AR294: 2, AR229: 2, AR233: 2, AR283: 2, AR227: 2, AR271: 2, AR258: 2, AR259: 2, AR256: 2, AR179: 1, AR194: 1, L0439: 6, L0731: 4, L0769: 2, L0666: 2, S0432: 2, S0206: 2, L0751: 2, L0777: 2, L0759: 2, L0691: 2, H0341: 1, H0661: 1, S0408: 1, H0601: 1, H0497: 1, H0123: 1, L0471: 1, H0051:

1530	HMWGO95	582078	1540	175 - 285	4137	Leu-3 to Ser-10.	H0341: 1	1, H0252: 1, H0616: 1, H0551: 1, H0646: 1, S0422: 1, L0372: 1, L0771: 1, L0773: 1, L0768: 1, L0775: 1, L0375: 1, L0527: 1, L0664: 1, L0665: 1, S0374: 1, H0659: 1, H0521: 1, H0522: 1, L0747: 1, L0749: 1, L0755: 1, L0758: 1, S0031: 1, L0683: 1, L0590: 1 and L0595: 1.
1531	HMWGV85	847416	1541	41 - 370	4138	Ala-83 to Ser-105.	AR284: 34, AR226: 31, AR177: 30, AR175: 28, AR258: 27, AR232: 26, AR060: 25, AR296: 25, AR182: 25, AR270: 25, AR268: 24, AR053: 24, AR238: 24, AR290: 24, AR263: 22, AR183: 22, AR039: 21, AR240: 21, AR185: 20, AR269: 20, AR244: 19, AR198: 19, AR227: 19, AR192: 19, AR237: 18, AR202: 18, AR266: 18, AR286: 18, AR213: 17, AR052: 17, AR104: 17, AR265: 17, AR295: 17, AR194: 16, AR186: 16, AR292: 16, AR206: 16, AR246: 16, AR291: 15, AR241: 15, AR274: 15, AR033: 15, AR282: 15, AR316: 15, AR061: 15, AR298: 15, AR310: 15, AR247: 15, AR289: 14, AR205: 14, AR285: 14, AR299: 14, AR300: 14, AR243: 14, AR204: 14, AR089: 14, AR184: 14, AR233: 14, AR293: 13, AR259: 13.	

1534	HMWIM55	604845	1544	53 - 157	4141				H0341: 1				
1535	HMW/Q26	722234	1545	135 - 344	4142				AR089: 139, AR184: 122, AR229: 111, AR296: 111, AR060: 107, AR259: 106, AR293: 105, AR316: 96, AR227: 94, AR294: 89, AR266: 88, AR234: 88, AR237: 88, AR233: 87, AR251: 83, AR298: 81, AR182: 80, AR256: 80, AR292: 77, AR238: 75, AR286: 72, AR289: 61, AR232: 59, AR231: 57, AR249: 55, AR290: 51, AR175: 51, AR177: 50, AR291: 49, AR179: 49, AR267: 48, AR269: 47, AR238: 46, AR226: 45, AR284: 45, AR285: 45, AR183: 45, AR061: 42, AR033: 38, AR185: 38, AR219: 37, AR295: 35, AR270: 34, AR218: 34, AR248: 30, AR313: 28, AR268: 28, AR253: 27, AR263: 23, AR265: 21, AR300: 21, AR282: 20, AR310: 18, AR096: 18, AR247: 17, AR240: 16, AR299: 16, AR186: 13, AR283: 9, AR312: 8, AR309: 8, AR277: 7, AR053: 5, AR055: 5, AR052: 5, AR213: 4, AR202: 3, AR104: 3, AR039: 3, AR204: 3, AR243: 2, AR198: 2, L0665: 6, L0794: 4, L0766: 4, L0659: 4, L0809: 4, L0731: 4, L0761: 3, L0662: 3, L0803:				

1536	HMWU49	800894	1546	989 - 1285	4143	Lys-22 to Ser-35, Gln-42 to Gln-51, Leu-65 to Thr-72, Ser-77 to Trp-86.	<p>3, S0404; 3, L0439; 3, S0222; 2, H0486; 2, H0457; 2, H0038; 2, L0666; 2, H0520; 2, H0519; 2, H0521; 2, L0743; 2, L0748; 2, L0749; 2, L0738; 2, L0759; 2, L0588; 2, L0605; 2, L0592; 2, S0276; 2, S0218; 1, H0650; 1, S0116; 1, H0341; 1, H0663; 1, H0662; 1, S0442; 1, S0408; 1, H0351; 1, H0592; 1, L0623; 1, H0013; 1, L0021; 1, H0014; 1, H0553; 1, H0644; 1, H0551; 1, H0412; 1, H0100; 1, L0475; 1, H0130; 1, L0640; 1, L0763; 1, L0769; 1, L0638; 1, L0637; 1, L0554; 1, L0806; 1, L0805; 1, L0653; 1, L0776; 1, L0655; 1, L0787; 1, L0789; 1, L0792; 1, L0663; 1, L0438; 1, H0593; 1, H0682; 1, H0659; 1, H0670; 1, H0672; 1, L0744; 1, L0750; 1, L0777; 1, H0445; 1, S0434; 1, L0366; 1 and H0543; 1, L0803; 13, L0751; 5, L0666; 3, L0663; 4, H0038; 3, L0664; 3, L0748; 3, L0749; 3, L0752; 3, H0590; 2, S0003; 2, L0769; 2, L0771; 2, L0774; 2, L0665; 2, L0439; 2, L0604; 2, H0341; 1, H0638; 1, L0717; 1, H0351; 1, S0278; 1, L0163; 1, H0510; 1, L0369; 1, L0763; 1, L0637; 1, L0646; 1, L0768; 1, L0794; 1, L0766; 1, L0804; 1, L0806; 1, L0657; 1, L0809; 1, L0367; 1, L0789; 1, S0374; 1, H0658; 1, H0670; 1, H0522; 1, L0754; 1, L0747; 1, L0779; 1, L0777; 1, L0755; 1, L0758; 1 and L0596; 1.</p>	Xq25-q26	<p>300037, 300076, 300123, 301201, 301845, 301900, 304340, 307150, 307700, 308000, 308000, 308230, 308240, 309555, 310490, 312000, 313350, 313850</p>
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1537	HMWJ62	838612	1547	115 - 231	4144		S0372: 2, H0341: 1, S0029: 1, H0402: 1, S0356: 1, S0010: 1, S0051: 1, H0561: 1, L0804: 1, S0044: 1, L0752: 1, L0596: 1, L0588: 1, L0366: 1, S0194: 1 and H0543: 1.	
1538	HMWJ64	581071	1548	187 - 327	4145	Met-1 to Asp-6.	L0766: 4, L0749: 4, L0755: 4, L0666: 3, L0777: 3, L0731: 3, H0634: 2, H0156: 2, H0674: 2, S0150: 2, L0805: 2, L0776: 2, L0809: 2, H0660: 2, H0436: 2, L0748: 2, L0747: 2, L0750: 2, L0752: 2, L0759: 2, L0595: 2, L0362: 2, S0194: 2, H0543: 2, H0170: 1, H0657: 1, H0656: 1, H0341: 1, S0420: 1, S0360: 1, S0410: 1, S0222: 1, H0370: 1, H0599: 1, H0705: 1, H0318: 1, H0581: 1, L0471: 1, H0012: 1, H0510: 1, H0604: 1, H0031: 1, H0135: 1, H0412: 1, H0059: 1, H0102: 1, H0100: 1, H0494: 1, L0065: 1, H0646: 1, L0770: 1, L0764: 1, L0662: 1, L0794: 1, L0650: 1, L0775: 1, L0517: 1, L0663: 1, L0664: 1, L0665: 1, S0126: 1, H0658: 1, H0539: 1, H0521: 1, H0696: 1, L0439: 1, L0740: 1, L0779: 1, L0780: 1, H0445: 1, L0588: 1, L0590: 1, L0604: 1, H0506: 1 and H0352: 1.	
1539	HNAAD76	596801	1549	116 - 232	4146		H0379: 1 and S0144: 1.	
1540	HNAAE24	566448	1550	107 - 178	4147		H0379: 1	
1541	HINALD94	844722	1551	88 - 741	4148	Arg-84 to Cys-90. Gln-138 to Leu-155.	AR089: 5, AR316: 4. AR060: 3 L0663: 4, H0352: 4, L0768: 3, L0666: 3, L0774: 2, L0663: 2, L0751: 2, L0777: 2, S0604: 1, S0376: 1, H0635: 1, S0050: 1.	

1542	HNALE44	785045	1552	179 - 286	4149	Ala-28 to Arg-35.	1, H0380: 1, L0351: 1, L0764: 1, L0662: 1, L0803: 1, L0659: 1, L0783: 1, S0126: 1, H0648: 1, S0028: 1, L0748: 1, L0745: 1, L0731: 1, L0758: 1, L0759: 1, S0260: 1, L0589: 1 and L0592: 1. AR089: 14, AR316: 7 H0599: 50, S0364: 8, L0747: 6, L0604: 6, L0622: 5, S0366: 3, L0759: 3, S0362: 4, L0809: 4, L0485: 4, L0750: 3, H0411: 2, T0040: 2, N0009: 2, H0002: 2, H0097: 2, S0010: 2, H0597: 2, H0373: 2, H0087: 2, H0646: 2, L0771: 2, H0547: 2, S0380: 2, S0027: 2, L0749: 2, S0418: 1, S0420: 1, H0550: 1, L0623: 1, H0013: 1, L0471: 1, L0163: 1, H0188: 1, H0424: 1, H0628: 1, H0032: 1, H0551: 1, H0380: 1, H0269: 1, H0412: 1, H0413: 1, H0623: 1, H0100: 1, L0638: 1, L0764: 1, L0804: 1, L0375: 1, L0805: 1, L0663: 1, H0144: 1, H0684: 1, S0330: 1, H0627: 1, S0037: 1, S0014: 1, S0028: 1, S0206: 1, L0777: 1, L0780: 1, L0755: 1, L0757: 1, L0758: 1, L0366: 1 and H0506: 1. L0748: 7, L0776: 4, L0766: 3, S0360: 2, L0805: 2, L0749: 2, L0756: 2, H0421: 1, H0510: 1, H0591: 1, H0625: 1, H0649: 1, H0538: 1, H0517: 1, L0769: 1, L0803: 1, L0775: 1, L0784: 1, L0655: 1, L0664: 1, H0648: 1, S0330: 1, H0539: 1, S0380: 1, H0579: 1, L0744: 1, L0747: 1, L0752: 1, L0731: 1, L0758:	7q32-q35	118425, 118425, 118425, 152427, 180105, 190900, 222800, 246900, 276000, 276000, 600510
1543	HNDAC35	847417	1553	78 - 200	4150		12		

1552	HNECX90	834776	1562	71 - 184	4159				H0666: 1, S0328: 1, H0522: 1, S0406: 1, L0749: 1, L0777: 1, L0752: 1, L0758: 1, S0026: 1, H0543: 1, H0423: 1, H0422: 1 and H0506: 1. L0748: 6, L0439: 6, H0486: 4, H0560: 4, L0438: 4, H0556: 3, S0116: 3, H0416: 3, H0135: 3, H0710: 3, H0445: 3, H0265: 2, H0140: 2, H0635: 2, H0457: 2, H0083: 2, H0090: 2, H0063: 2, H0641: 2, L0770: 2, L0769: 2, L0775: 2, L0776: 2, L0655: 2, L0789: 2, H0521: 2, H0555: 2, L0747: 2, L0756: 2, L0752: 2, L0592: 2, H0136: 2, H0423: 2, H0422: 2, H0159: 1, H0716: 1, S0114: 1, S0218: 1, H0583: 1, H0657: 1, H0341: 1, S0001: 1, H0255: 1, H0638: 1, S0376: 1, S0360: 1, H0637: 1, H0411: 1, S0278: 1, S0222: 1, H0632: 1, L0622: 1, H0108: 1, T0082: 1, H0618: 1, H0318: 1, H0581: 1, H0563: 1, H0023: 1, S0388: 1, H0510: 1, H0179: 1, H0271: 1, H0188: 1, H0622: 1, H0553: 1, H0617: 1, H0606: 1, H0040: 1, H0087: 1, H0551: 1, H0264: 1, H0272: 1, H0488: 1, T0041: 1, H0561: 1, S0344: 1, L0638: 1, L0637: 1, L0667: 1, L0645: 1, L0764: 1, L0766: 1, L0774: 1, L0805: 1, L0658: 1, L0518: 1, L0666: 1, S0052: 1, H0689: 1, H0690: 1, H0684: 1, H0435: 1, S0378: 1, H0214: 1, H0576: 1, H0478: 1, L0777: 1, L0758: 1, H0542: 1 and H0543: 1.	1p35.3-p34.1	118210, 120550, 120570, 120575, 121800, 130500, 133200, 138140, 171760, 171760, 178300, 185470, 230350, 255800, 602771
1553	HNECX90	881133	1563	71 - 184	4160				L0748: 6, L0439: 6, H0486: 4, H0560: 4, L0438: 4, H0556: 3, S0116: 3, H0416: 3, H0135: 3, H0710: 3, H0445: 3, H0265: 2, H0140: 2, H0635: 2, H0457: 2, H0083: 2, H0090: 2, H0063: 2, H0641: 2, L0770: 2, L0769: 2, L0775: 2, L0776: 2, L0655: 2, L0789: 2, H0521: 2, H0555: 2, L0747: 2, L0756: 2, L0752: 2, L0592: 2, H0136: 2, H0423: 2, H0422: 2, H0159: 1, H0716: 1, S0114: 1, S0218: 1, H0583: 1, H0657: 1, H0341: 1, S0001: 1, H0255: 1, H0638: 1, S0376: 1, S0360: 1, H0637: 1, H0411: 1, S0278: 1, S0222: 1, H0632: 1, L0622: 1, H0108: 1, T0082: 1, H0618: 1, H0318: 1, H0581: 1, H0563: 1, H0023: 1, S0388: 1, H0510: 1, H0179: 1, H0271: 1, H0188: 1, H0622: 1, H0553: 1, H0617: 1, H0606: 1, H0040: 1, H0087: 1, H0551: 1, H0264: 1, H0272: 1, H0488: 1, T0041: 1, H0561: 1, S0344: 1, L0638: 1, L0637: 1, L0667: 1, L0645: 1, L0764: 1, L0766: 1, L0774: 1, L0805: 1, L0658: 1, L0518: 1, L0666: 1, S0052: 1, H0689: 1, H0690: 1, H0684: 1, H0435: 1, S0378: 1, H0214: 1, H0576: 1, H0478: 1, L0777: 1, L0758: 1, H0542: 1 and H0543: 1.	1p35.3-p34.1	118210, 120550,

					4, H0560: 4, L0438: 4, H0556: 3, S0116: 3, H0416: 3, H0135: 3, H0710: 3, H0445: 3, H0265: 2, H0140: 2, H0635: 2, H0457: 2, H0083: 2, H0090: 2, H0063: 2, H0641: 2, L0770: 2, L0769: 2, L0775: 2, L0776: 2, L0655: 2, L0789: 2, H0521: 2, H0555: 2, L0747: 2, L0756: 2, L0752: 2, L0592: 2, H0136: 2, H0423: 2, H0422: 2, H0159: 1, H0716: 1, S0114: 1, S0218: 1, H0583: 1, H0657: 1, H0341: 1, S0001: 1, H0255: 1, H0638: 1, S0376: 1, S0360: 1, H0637: 1, H0411: 1, S0278: 1, S0222: 1, H0632: 1, L0622: 1, H0108: 1, T0082: 1, H0618: 1, H0318: 1, H0581: 1, H0563: 1, H0023: 1, S0388: 1, H0510: 1, H0179: 1, H0271: 1, H0188: 1, H0622: 1, H0553: 1, H0617: 1, H0606: 1, H0040: 1, H0087: 1, H0551: 1, H0264: 1, H0272: 1, H0488: 1, T0041: 1, H0561: 1, S0344: 1, L0638: 1, L0637: 1, L0667: 1, L0645: 1, L0764: 1, L0766: 1, L0774: 1, L0805: 1, L0658: 1, L0518: 1, L0666: 1, S0052: 1, H0689: 1, H0690: 1, H0684: 1, H0435: 1, S0378: 1, H0214: 1, H0576: 1, H0478: 1, L0777: 1, L0758: 1, H0542: 1 and H0543: 1.				120570, 120575, 121800, 130500, 133200, 138140, 171760, 171760, 178300, 185470, 230350, 255800, 602771
1554	HNEDA05	834777	1564	649 - 828	4161	Pro-27 to Ser-37, Gln-40 to Pro-49.	AR060: 3, AR316: 2, AR089: 2 L0749: 2, H0179: 1, H0271: 1, H0444: 1 and H0445: 1.		
1555	HNEDP75	581072	1565	211 - 285	4162	Glu-13 to Asp-18.	H0179: 1		
1556	HNEDQ02	846061	1566	280 - 450	4163	Arg-36 to Ala-43.	L0764: 5, L0759: 4, H0529: 3, L0803: 3, L0809: 3, L0666:	1 cen-q1/2.1	

1557	HNEDU46	695745	1567	794 - 952	4164	Arg-47 to Lys-52.	3, H0255: 2, H0318: 2, H0266: 2, H0617: 2, H0090: 2, S0142: 2, L0770: 2, L0769: 2, L0771: 2, L0499: 2, L0514: 2, H0690: 2, H0659: 2, H0521: 2, L0777: 2, L0604: 2, L0785: 1, H0483: 1, H0241: 1, S0420: 1, S0376: 1, S0360: 1, H0580: 1, S0045: 1, H0431: 1, H0497: 1, H0486: 1, H0069: 1, H0036: 1, H0618: 1, H0253: 1, H0581: 1, H0052: 1, H0439: 1, H0050: 1, H0375: 1, H0179: 1, H0039: 1, H0553: 1, H0628: 1, H0673: 1, H0477: 1, S0450: 1, S0144: 1, S0344: 1, S0210: 1, L0372: 1, L0800: 1, L0804: 1, L0775: 1, L0805: 1, L0509: 1, L0664: 1, H0522: 1, S0027: 1, S0028: 1, L0779: 1, L0752: 1, L0758: 1, H0445: 1 and H0542: 1.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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1560	HNFAG67	804546	1570	32 - 40	4167		1, L0717: 1, S0220: 1, H0485: 1, H0069: 1, H0618: 1, H0581: 1, H0544: 1, H0546: 1, H0620: 1, H0023: 1, H0510: 1, H0213: 1, H0628: 1, H0032: 1, H0634: 1, H0264: 1, H0280: 1, H0429: 1, H0641: 1, H0538: 1, L0640: 1, L0761: 1, L0643: 1, L0768: 1, L0653: 1, L0519: 1, L0545: 1, L0789: 1, L0792: 1, L4501: 1, L0665: 1, S0053: 1, L0352: 1, H0593: 1, H0670: 1, H0648: 1, H0521: 1, H0478: 1, L0743: 1, L0439: 1, L0747: 1, L0779: 1, L0780: 1, L0757: 1, L0758: 1, S0434: 1, S0436: 1, L0603: 1, H0543: 1 and H0423: 1.	2q11.2	129490
1561	HNF CJ77	886185	1571	332 - 385	4168		H0581: 4, L0766: 4, H0542: 4, L0803: 3, L0655: 3, L0662: 2, L0804: 2, L0659: 2, H0521: 2, L0779: 2, L0777: 2, H0657: 1, H0638: 1, H0125: 1, H0608: 1, H0485: 1, H0486: 1, L0021: 1, H0036: 1, H0069: 1, H0271: 1, H0090: 1, H0038: 1, H0641: 1, L0761: 1, L0645: 1, L0767: 1, L0775: 1, L0806: 1, L0607: 1, L0657: 1, S0428: 1, H0660: 1, L0756: 1, L0731: 1, H0543: 1 and H0422: 1.		
1562	HNF C056	849256	1572	526 - 582	4169		H0271: 2, H0402: 1 and H0328: 1. AR089: 36, AR316: 22, AR060: 10 H0670: 22, S0360: 16, H0486: 13, H0696: 8, H0014: 6, L0657: 5, S0374: 5, L0777: 5, H0263: 4, L0659: 4, L0809: 4, S0434: 4, H0662: 3, S0356: 4.		

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3, H0598; 3, L0764; 3, L0662; 3, H0672; 3, S0406; 3, H0555; 3, S0028; 3, L0744; 3, L0748; 3, S0040; 2, H0638; 2, S0358; 2, S0408; 2, S0410; 2, H0637; 2, H0411; 2, S0003; 2, S0214; 2, H0551; 2, L0762; 2, L0763; 2, L0521; 2, L0768; 2, L0774; 2, L0805; 2, L0666; 2, L0665; 2, H0547; 2, H0689; 2, H0659; 2, H0710; 2, L0751; 2, L0731; 2, L0581; 2, L0362; 2, S0026; 2, H0667; 2, S0242; 2, H0422; 2, H0506; 2, H0170; 1, H0686; 1, H0713; 1, T0049; 1, H0657; 1, S0212; 1, S0420; 1, S0354; 1, S0444; 1, S0046; 1, H0431; 1, H0602; 1, H0497; 1, H0643; 1, H0331; 1, H0574; 1, H0635; 1, H0427; 1, T0048; 1, H0596; 1, H0015; 1, H0355; 1, H0594; 1, H0266; 1, H0271; 1, H0687; 1, H0328; 1, H0622; 1, T0023; 1, H0031; 1, H0553; 1, H0169; 1, H0674; 1, S0364; 1, H0591; 1, H0412; 1, H0413; 1, H0059; 1, S0450; 1, H0641; 1, H0633; 1, H0649; 1, S0144; 1, H0529; 1, L0640; 1, L0646; 1, L0641; 1, L0773; 1, L0648; 1, L0794; 1, L0766; 1, L0388; 1, L0803; 1, L0375; 1, L0784; 1, L0806; 1, L0776; 1, L0655; 1, L0518; 1, L0519; 1, L0530; 1, L0789; 1, L0532; 1, S0126; 1, H0684; 1, H0435; 1, H0660; 1, H0648; 1, S0328; 1, S0330; 1, H0539; 1, H0627; 1, S0390; 1, L0747; 1, L0756; 1, L0779; 1, H0543; 1 and S0460; 1.
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1563	HNFCY57	877653	1573	317 - 2206	4170	Leu-15 to Leu-25, Arg-47 to His-53, Glu-130 to Asn-138, Pro-140 to Ser-148, Asn-157 to Lys-163, Asn-178 to Lys-187, Pro-281 to Arg-292, Leu-341 to Leu-346, Lys-471 to Cys-477, Arg-513 to Gly-521, Gly-570 to Gly-575, Leu-614 to Glu-620.	H0271: 3, H0575: 2, H0416: 2, H0518: 2, L0748: 2, S0602: 1, L0021: 1, H0024: 1, H0179: 1, S0002: 1, L0794: 1, S0053: 1 and S0216: 1.	Iq43-q44	106150, 106150, 156570, 600996, 601975, 602759
1564	HNFDL89	823362	1574	231 - 335	4171		H0271: 2, H0265: 1, H0179: 1 and H0343: 1.		
1565	HNFDI73	566858	1575	72 - 122	4172		H0271: 2, H0318: 1, H0673: 1, L0186: 1, H0555: 1 and L0779: 1.		
1566	HNFDU92	602933	1576	30 - 38	4173		H0271: 1		
1567	HNFDY09	843300	1577	311 - 358	4174		S0428: 4, H0009: 2, S0442: 1, H0581: 1, H0271: 1, S0052: 1, H0445: 1, H0543: 1 and L0697: 1.		
1568	HNFDY31	724955	1578	473 - 655	4175		S0404: 1, L0439: 1, L0777: 1, S0358: 10, L0731: 10, S0360: 9, L0754: 9, L0758: 9, S0422: 7, H0581: 6, H0436: 6, L0748: 6, L0752: 6, L0596: 6, L0589: 6, H0013: 5, L0665: 5, H0144: 5, L0740: 5, H0543: 5, S0356: 4, S0444: 4, H0486: 4, L0666: 4, L0663: 4, S0374: 4, H0520: 4, H0710: 4, L0750: 4, H0411: 3, H0415: 3, S0003: 3, H0428: 3, H0553: 3, H0090: 3, H0059: 3, L0770: 3, L0766: 3, L0776: 3, L0655: 3, L0659: 3, L0809: 3, H0547: 3, H0658: 3, H0521: 3, L0755: 3, L0759: 3, S0436: 3, H0423: 3.	Xp11.3-p11.23	300047, 300062, 300071, 300110, 300600, 301000, 301000, 301830, 304020, 309470, 309500, 309610, 309850, 310500, 311050, 312060, 312600

1569	HNFEA17	755242	1579	9 - 152	4176	Thr-23 to Arg-31, Arg-36 to Ser-45.	AR241: 65, AR313: 56, AR198: 43, AR275: 37, AR039: 34, AR192: 29, AR204: 28, AR089: 28, AR052: 28, AR271: 27, AR053: 26, AR265: 26, AR258: 24, AR218: 24, AR312: 24, AR185: 24, AR240: 23, AR229: 23, AR096: 22, AR299: 22, AR243: 22, AR293: 21, AR300: 21, AR104: 20, AR219: 20, AR277: 19, AR316: 18, AR274: 18, AR213: 18, AR177: 18, AR310: 18, AR309: 17, AR186: 17, AR292: 16, AR194: 16, AR247: 16, AR233: 16, AR249: 15, AR244: 15, AR248: 15, AR273: 15, AR183: 14, AR205: 14, AR238: 14, AR060: 14, AR259: 13, AR280: 13, AR175: 12, AR282: 12, AR033: 12, AR315: 12, AR184: 12, AR294: 12, AR206: 12, AR202: 11, AR246: 11, AR263: 11, AR234: 10, AR295: 10, AR256: 9, AR226: 9, AR267: 9, AR281: 9, AR227: 8, AR237: 8, AR231: 8, AR283: 8, AR179: 8, AR182: 8, AR268: 8, AR055: 7, AR253: 7, AR314: 7, AR285: 6, AR251: 6, AR286: 6, AR061: 5, AR298: 5, AR270: 4, AR269: 4,
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1570	HNIPE55	722236	1580	219 - 302	4177	Sec-3 to Thr-8, Ala-19 to Ala-25.	AR232: 3, AR266: 3, AR284: 2, AR291: 2, AR289: 2, AR296: 2, AR290: 2 H0271: 9, H0657: 4, S0428: 3, H0635: 2, H0416: 2, H0617: 2, L0766: 2, S0114: 1, S0218: 1, H0587: 1, H0485: 1, H0069: 1, H0318: 1, H0634: 1, S0144: 1, H0529: 1, L0667: 1, L0774: 1, L0775: 1, H0670: 1, H0521: 1, L0747: 1 and L0749: 1.	11	
							AR254: 630, AR259: 562, AR256: 494, AR248: 462, AR252: 453, AR294: 450, AR310: 422, AR281: 414, AR280: 402, AR253: 386, AR293: 378, AR052: 377, AR292: 359, AR265: 349, AR315: 346, AR283: 345, AR258: 323, AR289: 318, AR204: 309, AR249: 304, AR286: 300, AR053: 292, AR296: 289, AR218: 286, AR297: 277, AR242: 276, AR195: 272, AR275: 263, AR243: 263, AR314: 262, AR198: 249, AR246: 241, AR039: 240, AR287: 238, AR219: 238, AR177: 230, AR207: 227, AR194: 227, AR257: 226, AR244: 224, AR255: 219, AR096: 216, AR271: 212, AR213: 209, AR203: 208, AR241: 208, AR309: 205, AR273: 205, AR261: 205, AR230: 204, AR312: 204, AR202: 199, AR104: 194, AR272: 193, AR192: 191, AR033: 191,		

1571	HNFE112	824170	1581	281 - 436	4178	Ser-25 to Lys-32, Pro-42 to Phe-48.	AR251: 56, AR277: 53, AR168: 53, AR238: 52, AR264: 52, AR224: 43, AR173: 42, AR223: 41, AR216: 41, AR221: 40, AR210: 38, AR211: 30, AR222: 24, AR215: 14, AR214: 11 HO271: 17, HO179: 4, HO546: 2, HO457: 2, HO086: 2, LO667: 2, SO376: 1, HO580: 1, HO575: 1, HO618: 1, SO049: 1, HO024: 1, HO553: 1, HO087: 1, HO059: 1, HO625: 1, LO638: 1, LO796: 1, LO773: 1, LO662: 1, LO768: 1, LO775: 1, LO783: 1, LO666: 1, LO665: 1, SO216: 1, SO378: 1, LO777: 1, LO592: 1, HO542: 1 and SO041: 1.		
1572	HNFEK59	634649	1582	162 - 254	4179		AR089: 11, AR316: 8, AR060: 6 HO271: 1 and SO428: 1.		
1573	HNFGC51	862044	1583	217 - 246	4180		AR060: 6, AR316: 6, AR089: 6 HO271: 1 HO266: 3, HO264: 3, HO457: 2, HO031: 2, HO423: 2, SO114: 1, HO341: 1, HO662: 1, HO580: 1, NO009: 1, HO599: 1, HO036: 1, HO581: 1, HO052: 1, HO086: 1, HO271: 1, SO036: 1, HO135: 1, HO059: 1, T0041: 1, SO306: 1, SO144: 1, SO002: 1, HO701: 1, HO520: 1, HO521: 1, LO439: 1, HO445: 1 and HO543: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040
1574	HNFR15	844044	1584	292 - 387	4181		HO271: 1 and HO423: 1.		
1575	HNFGW37	692528	1585	219 - 425	4182		AR060: 5, AR316: 4, AR089: 2 HO179: 1, HO271: 1, LO769:		

1576	HNFGW53	589525	1586	12 - 239	4183	Pro-57 to Val-63, Lys-69 to Phe-74.	1 and L0761: 1. H0556: 3, H0673: 3, S0053: 3, H0618: 2, H0083: 2, H0179: 2, H0674: 2, S0216: 2, T0002: 1, S0134: 1, S0116: 1, H0550: 1, H0409: 1, H0069: 1, H0427: 1, H0271: 1, H0039: 1, H0090: 1, H0634: 1, H0059: 1, S0052: 1, S0428: 1, H0144: 1, S0152: 1, H0576: 1 and S0031: 1. L0771: 3, L0021: 2, L0439: 2, L0779: 2, L0755: 2, S0114: 1, H0650: 1, H0661: 1, H0179: 1, H0271: 1, S0003: 1, H0059: 1, H0647: 1, L0800: 1, L0794: 1, L0803: 1, L0652: 1, L0790: 1, L0791: 1, S0052: 1, S0428: 1, L0749: 1 and L0758: 1. S0422: 15, H0124: 12. L0666: 11, L0663: 11, L0483: 10, L0439: 10, L0759: 10, L0664: 9, H0521: 9, L0665: 8, L0740: 8, L0751: 8, S0046: 7, S0126: 7, L0754: 7, S0408: 6, H0644: 6, H0412: 6, H0494: 6, S0438: 6, S0440: 6, L0659: 6, H0519: 6, S0152: 6, S3014: 6, L0731: 6, S0436: 6, S0444: 5, S0360: 5, S0410: 5, H0013: 5, H0251: 5, L0770: 5, L0766: 5, H0547: 5, H0672: 5, L0750: 5, L0362: 5, H0542: 5, S0376: 4, H0318: 4, H0046: 4, H0039: 4, H0553: 4, H0040: 4, H0551: 4, L0646: 4, L0662: 4, L0803: 4, L0774: 4, L0775: 4, L0653: 4, H0144: 4, L0438: 4, L0747: 4, L0779: 4, L0777: 4, L0758: 4, S0442: 3, S0222: 3, H0581: 3, H0052: 3, H0545: 3, H0266: 3.	8q24.3	188450, 188450, 188450
1577	HNPHA34	567287	1587	246 - 371	4184				
1578	HNPHD58	664495	1588	119 - 157	4185				

H0622: 3, H0424: 3, H0628: 3, H0090: 3, H0561: 3, L0763: 3, L0771: 3, L0809: 3, L5623: 3, H0659: 3, H0648: 3, S0378: 3, H0436: 3, S0027: 3, L0744: 3, L0745: 3, L0752: 3, S0434: 3, L0608: 3, S0242: 3, H0423: 3, H0422: 3, H0506: 3, H0624: 2, H0556: 2, H0717: 2, S0134: 2, L0393: 2, H0661: 2, S0358: 2, H0580: 2, H0730: 2, S0476: 2, H0549: 2, H0587: 2, H0497: 2, H0632: 2, H0036: 2, H0421: 2, H0620: 2, S0250: 2, H0031: 2, H0032: 2, H0674: 2, H0591: 2, H0616: 2, H0623: 2, H0560: 2, S0208: 2, L0648: 2, L0776: 2, L0807: 2, L0657: 2, H0520: 2, H0435: 2, H0666: 2, S0328: 2, S0330: 2, H0539: 2, L0602: 2, L0748: 2, L0756: 2, L0755: 2, L0596: 2, L0594: 2, S0026: 2, H0667: 2, S0192: 2, S0196: 2, H0170: 1, H0171: 1, H0265: 1, S0040: 1, T0049: 1, H0583: 1, H0650: 1, H0656: 1, S0116: 1, H0341: 1, S0001: 1, H0663: 1, H0662: 1, H0638: 1, S0420: 1, S0356: 1, S0354: 1, H0741: 1, H0722: 1, S0468: 1, S0007: 1, H0393: 1, L0717: 1, H0411: 1, S0278: 1, S6022: 1, H0431: 1, H0586: 1, H0642: 1, H0486: 1, T0114: 1, H0250: 1, H0427: 1, S0280: 1, H0575: 1, H0037: 1, S0049: 1, H0263: 1, H0596: 1, H0597: 1, H0327: 1, H0544: 1, H0546: 1, H0457: 1, H0123: 1, H0050: 1, L0471: 1, S0050: 1, H0014: 1, S0051: 1, H0510: 1,
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1579	HNFI68	567445	1589	281 - 307	4186				H0375: 1, S6028: 1, H0179: 1, H0271: 1, H0286: 1, H0615: 1, H0428: 1, H0029: 1, H0119: 1, T0066: 1, L0142: 1, H0111: 1, L0055: 1, H0169: 1, H0212: 1, H0068: 1, H0598: 1, H0135: 1, H0038: 1, H0063: 1, T0067: 1, H0264: 1, H0488: 1, H0056: 1, H0059: 1, S0386: 1, L0564: 1, T0041: 1, H0509: 1, S0150: 1, H0130: 1, H0633: 1, H0649: 1, S0210: 1, H0529: 1, L0520: 1, L0769: 1, L0372: 1, L0641: 1, L0773: 1, L0626: 1, L0768: 1, L0649: 1, L0652: 1, L0654: 1, L0661: 1, L0656: 1, L0783: 1, L0382: 1, L0529: 1, L5622: 1, L0788: 1, L0793: 1, L0532: 1, S0006: 1, S0052: 1, H0697: 1, H0702: 1, H0725: 1, S0374: 1, H0689: 1, H0682: 1, H0684: 1, H0638: 1, H0670: 1, S0380: 1, H0518: 1, H0522: 1, H0696: 1, S0044: 1, S0146: 1, S0392: 1, H0478: 1, S0121: 1, S0206: 1, L0753: 1, L0757: 1, H0444: 1, L0588: 1, L0591: 1, L0593: 1, S0194: 1, H0543: 1, S0384: 1 and H0721: 1.
1580	HNFI15	898153	1590	107 - 406	4187	Ser-40 to Arg-54, Met-67 to Arg-75, Glu-78 to Ala-83.	AR089: 8, AR316: 6, AR060: 4 H0645: 1, H0431: 1, T0082: 1, S0010: 1, S0346: 1, H0416: 1, H0288: 1 and H0494: 1.		
1581	HNFI29	852233	1591	150 - 209	4188		H0416: 1		
1582	HNFI49	569804	1592	168 - 230	4189		H0416: 1		
1583	HNFI27	825400	1593	288 - 416	4190		H0486: 1, H0271: 1 and H0444: 1.		

1584	HNGIG16	610106	1594	110 - 208	4191	Glu-26 to His-31.	H0271: 2 and S0002: 1.		
1585	HNGAC71	695746	1595	168 - 227	4192		H0598: 1 and S0052: 1.		
1586	HNGAK42	602943	1596	15 - 95	4193	Ser-17 to Ser-23.	S0052: 1 and S0053: 1.		
1587	HNGAL25	835785	1597	9 - 116	4194		S0052: 1		
1588	HNGAT83	825393	1598	145 - 303	4195	His-38 to Asp-49.	S0052: 1		
1589	HNGAX06	841890	1599	145 - 261	4196	His-28 to Glu-33.	S0052: 3, S0358: 1, H0637: 1, H0580: 1, H0329: 1, H0619: 1, H0194: 1, L0471: 1, H0428: 1, H0124: 1, H0063: 1, H0264: 1, H0059: 1, S0053: 1 and H0555: 1.		
1590	HNGBB09	602954	1600	7 - 69	4197		AR184: 4, AR206: 3, AR243: 2, AR251: 2, AR312: 2, AR271: 2, AR096: 1, AR270: 1, AR213: 1, AR185: 1, AR289: 1, AR313: 1, AR282: 1, AR060: 1, AR291: 1, AR229: 1, AR267: 1, AR227: 1, AR186: 1, S0052: 1		
1591	HNGBC53	852239	1601	178 - 345	4198		S0052: 2		
1592	HNGBD94	704100	1602	22 - 117	4199		AR060: 6, AR316: 5, AR089: 3, S0052: 1		
1593	HNGBE44	825391	1603	208 - 228	4200		H0676: 1 and S0052: 1.		
1594	HNGBE63	561514	1604	158 - 292	4201	Pro-9 to Pro-14.	S0052: 1	7q36	142335, 152427, 163729, 176450, 190605, 600510, 600725
1595	HNGBI83	566815	1605	80 - 184	4202		S0052: 1		
1596	HNGBJ74	581073	1606	180 - 404	4203		S0052: 1		
1597	HNGBP30	603344	1607	36 - 146	4204		S0052: 1		
1598	HNGBQ61	690885	1608	164 - 367	4205	Gly-50 to Thr-63.	S0052: 1		
1599	HNGBS35	768027	1609	135 - 188	4206		AR213: 4, AR287: 4, AR275: 4, AR060: 4, AR309: 4, AR162: 4, AR161: 4, AR163: 4.		

[illegible]

1600	HNGBW25	560226	1610	15 - 143	4207	Phe-21 to His-29 Arg-35 to Lys-42.	S0052: 3 AR060: 4, AR316: 3, AR089: 2 S0052: 1		
1601	HNGCIT29	580201	1611	202 - 309	4208		AR089: 7, AR316: 6, AR060: 6 S0052: 1		
1602	HNGCIT64	823147	1612	239 - 406	4209	Lys-25 to Pro-32.	S0052: 1		
1603	HNGDIF54	702002	1613	36 - 314	4210		L0759: 7, H0305: 3, H0124: 4, L0439: 4, H0052: 2, L0770: 2, L0769: 2, L0806: 2, L0665: 2, S0052: 2, L0777: 2, L0731: 2, S0434: 2, L0597: 2, L0581: 2, S0011: 2, H0176: 1, H0589: 1, S0358: 1, H0351: 1, H0549: 1, S0222: 1, H0592: 1, H0013: 1, H0635: 1, H0156: 1, H0042: 1, H0575: 1, S0010: 1, S0346: 1, H0196: 1, H0046: 1, H0009: 1, H0050: 1, H0014: 1, H0266: 1, S0250: 1, H0039: 1, H0553: 1, H0068: 1, H0040: 1, H0264: 1, H0494: 1, H0561: 1, H0641: 1, H0529: 1, L0639: 1, L0662: 1, L0794: 1, L0766: 1, L0775: 1, L0776: 1, L0655: 1, L0791: 1, L0793: 1, L0666: 1, L0664: 1, S0053: 1, S0374: 1, S0310: 1, H0593: 1, H0435: 1, H0539: 1, H0518: 1, S0152: 1, H0521: 1, L0749: 1, L0779: 1, L0752: 1, L0755: 1, H0543: 1, H0422: 1 and S0452: 1.		
1604	HNGDH22	600365	1614	389 - 640	4211	Pro-1 to Pro-6, Gly-58 to Pro-70, Gly-76 to Cys-83.	S0052: 1		
1605	HNGDH27	581074	1615	59 - 175	4212		S0052: 1		
1606	HNGDN07	847081	1616	78 - 242	4213		H0644: 1 and S0052: 1.		
1607	HNGDO65	830724	1617	705 - 773	4214	Cys-29 to Thr-38.	AR089: 9, AR316: 8.		

1608	HNGDR39	590253	1618	53 - 178	4215			AR060: 7 L0751: 5, L0754: 5, L0766: 4, L0776: 3, H0547: 3, H0658: 3, H0318: 2, L0659: 2, L0666: 2, L0665: 2, L0750: 2, L0596: 2, S0114: 1, S0418: 1, S0360: 1, H0333: 1, H0013: 1, L0038: 1, H0597: 1, S0036: 1, H0163: 1, H0040: 1, H0616: 1, H0641: 1, L0769: 1, L0771: 1, L0768: 1, L0803: 1, L0804: 1, L0774: 1, L0661: 1, L0657: 1, L0792: 1, L0663: 1, L0664: 1, S0052: 1, T0068: 1, H0696: 1, L0740: 1, L0747: 1, L0779: 1, L0758: 1 and S0026: 1.		
1609	HNGDW78	621295	1619	206 - 313	4216	Gly-29 to Thr-35.	S0052: 1			
1610	HNGEA90	861948	1620	220 - 435	4217	Met-1 to Lys-7, Asp-28 to Ser-34.	AR060: 4, AR316: 3, AR089: 2 S0052: 1			
1611	HNGEC17	825392	1621	220 - 234	4218		S0052: 2			
1612	HNGEE06	689506	1622	29 - 136	4219		S0052: 1			
1613	HNGEF70	612780	1623	36 - 131	4220	Arg-17 to Asp-22.	S0052: 1			
1614	HNGEF72	880975	1624	238 - 309	4221		S0052: 1			
1615	HNGEI64	732066	1625	56 - 145	4222		S0052: 1			
1616	HNGEI33	610108	1626	241 - 303	4223		L0665: 10, L0754: 6, L0438: 5, L0751: 5, L0777: 5, L0752: 5, L0755: 4, L0758: 4, S0046: 3, H0213: 3, L0769: 3, L0667: 3, L0771: 3, L0662: 3, L0659: 3, H0539: 3, L0747: 3, L0757: 3, S0276: 3, S0418: 2, H0208: 2, S0045: 2, H0428: 2, H0424: 2, H0553: 2, H0412: 2, L0638: 2, L0764: 2, L0768: 2, L0649: 2, L0666: 2, L0663: 2, H0547: 2, H0521: 2, S0404: 2, L0743: 2, L0744: 2, L0439: 2, L0756: 2	5p13	108862, 120940, 217050, 217050, 217070, 245050, 600837, 600946, 600946, 600946	

1617	HNGEX64	825384	1627	144 - 251	4224	Met-1 to Ser-6.	S0052: 1 S0052: 1	2, L0759: 2, L0485: 2, L0599: 2, S0040: 1, S0342: 1, T0049: 1, H0583: 1, H0657: 1, S0212: 1, H0580: 1, S0132: 1, H0261: 1, H0550: 1, H0370: 1, H0586: 1, H0333: 1, H0013: 1, H0250: 1, S0280: 1, H0575: 1, H0618: 1, S0049: 1, H0052: 1, H0009: 1, L0471: 1, H0620: 1, L0163: 1, S0388: 1, S0051: 1, T0010: 1, H0408: 1, H0239: 1, H0266: 1, H0179: 1, H0271: 1, H0124: 1, S0366: 1, H0135: 1, H0059: 1, T0042: 1, H0509: 1, H0641: 1, S0210: 1, H0529: 1, L0639: 1, L0637: 1, L0761: 1, L0646: 1, L0643: 1, L0773: 1, L0650: 1, L0657: 1, L0635: 1, L0383: 1, L0790: 1, L0792: 1, L0664: 1, S0052: 1, H0691: 1, H0593: 1, H0435: 1, H0672: 1, H0696: 1, H0576: 1, L0748: 1, L0745: 1, L0750: 1, L0731: 1, H0707: 1, L0596: 1, L0591: 1, L0592: 1, L0593: 1, L0595: 1, H0667: 1, H0422: 1 and L0600: 1.
1618	HNGEX64	825384	1627	144 - 251	4224	Met-1 to Ser-6.	S0052: 1	
1619	HNGEX32	621308	1628	57 - 173	4225		S0052: 1	
1620	HNGEX85	825373	1629	178 - 384	4226		S0052: 1	
1621	HNGEX90	825378	1630	53 - 151	4227	Thr-38 to Asn-45.	S0052: 1 AR089: 17, AR316: 12, AR060: 8 S0052: 1	
1622	HNGEX18	621339	1632	389 - 409	4229	Met-1 to Trp-6.	AR060: 6, AR316: 5, AR089: 3 S0052: 1	
1623	HNGEX45	621331	1633	231 - 260	4230		S0052: 1 and S0428: 1.	
1624	HNGEX02	825376	1634	298 - 375	4231		H0615: 2 and S0052: 1.	
1625	HNGEX90	634858	1635	466 - 537	4232		AR089: 18, AR316: 14,	

1626	HNGFA25	609887	1636	211 - 402	4233	Asp-22 to Cys-30.	AR060: 11 H0333: 1, S0052: 1 and L0589: 1. L0365: 1, S0052: 1 and S0216: 1. S0052: 1 S0052: 2 and H0144: 1. S0052: 2 H0410: 1 and S0052: 1. AR060: 7, AR316: 6, AR089: 4 S0052: 3, H0635: 1, L0803: 1, L0804: 1, L0791: 1, H0710: 1, L0746: 1 and L0758: 1. S0052: 1 AR060: 2, AR316: 1 S0052: 1 AR060: 8, AR316: 6, AR089: 4 S0052: 1 L0745: 7, L0662: 4, L0659: 4, L0747: 4, H0255: 3, L0770: 3, L0764: 3, L0766: 3, L0751: 3, L0758: 3, L0595: 3, H0545: 2, H0616: 2, L0769: 2, L0637: 2, L0792: 2, L0754: 2, H0556: 1, S0134: 1, H0661: 1, H0663: 1, H0177: 1, S0420: 1, H0282: 1, H0486: 1, T0039: 1, H0581: 1, H0052: 1, H0178: 1, L0471: 1, H0620: 1, H0197: 1, T0010: 1, H0688: 1, H0553: 1, H0040: 1, H0087: 1, S0352: 1, S0472: 1, H0646: 1, S0210: 1, H0529: 1, L0504: 1, L0374: 1, L0645: 1, L0648: 1, L0774: 1, L0806: 1, L0805: 1, L0661: 1, L0527: 1, L0383: 1, L0519: 1, L0666: 1, L0663: 1, L0664: 1, L0665:				
1627	HNGFB05	608297	1637	110 - 127	4234						
1628	HNGFD30	612782	1638	14 - 112	4235						
1629	HNGFD31	663532	1639	185 - 295	4236						
1630	HNGFD61	612781	1640	194 - 250	4237						
1631	HNGFC04	772548	1641	250 - 423	4238						
1632	HNGFG74	826457	1642	189 - 320	4239						
1633	HNGFH32	826458	1643	963 - 1133	4240						
1634	HNGFH83	636021	1644	739 - 759	4241						
1635	HNGFI21	581075	1645	34 - 183	4242	Pro-22 to Lys-30.					

1636	HNGFM31	567422	1646	220 - 420	4243	Ser-6 to Lys-17, Pro-37 to Gln-46, Lys-60 to Ala-66.	1, S0052: 1, H0435: 1, H0670: 1, SG380: 1, L0748: 1, L0439: 1, L0740: 1, L0746: 1, L0750: 1, L0591: 1, L0603: 1, H0668: 1 and S0026: 1. S0052: 1		
1637	HNGFN77	842620	1647	195 - 287	4244	Met-1 to Thr-6, Cys-32 to Thr-39, Pro-56 to Ile-66.	S0052: 1 and L0592: 1.		
1638	HNGFQ18	566865	1648	39 - 242	4245		AR176: 9, AR161: 7, AR162: 7, AR228: 7, AR163: 7, AR266: 7, AR221: 7, AR236: 6, AR182: 6, AR288: 6, AR181: 6, AR235: 6, AR215: 6, AR257: 5, AR233: 5, AR191: 5, AR293: 5, AR267: 5, AR294: 5, AR269: 5, AR309: 5, AR178: 5, AR207: 5, AR177: 5, AR282: 5, AR214: 5, AR261: 5, AR169: 5, AR289: 5, AR265: 4, AR175: 4, AR180: 4, AR275: 4, AR264: 4, AR172: 4, AR287: 4, AR200: 4, AR231: 4, AR274: 4, AR061: 4, AR223: 4, AR240: 4, AR196: 4, AR247: 4, AR229: 4, AR237: 4, AR290: 4, AR262: 4, AR291: 4, AR238: 4, AR165: 4, AR311: 4, AR190: 4, AR286: 4, AR183: 4, AR295: 4, AR164: 4, AR171: 4, AR170: 4, AR204: 4, AR260: 4, AR268: 4.		

									AR197: 4, AR166: 4, AR225: 4, AR316: 4, AR255: 4, AR256: 4, AR179: 4, AR224: 4, AR239: 4, AR185: 4, AR300: 4, AR222: 4, AR270: 4, AR296: 3, AR230: 3, AR297: 3, AR060: 3, AR055: 3, AR173: 3, AR217: 3, AR285: 3, AR174: 3, AR258: 3, AR242: 3, AR201: 3, AR089: 3, AR226: 3, AR216: 3, AR299: 3, AR227: 3, AR168: 3, AR232: 3, AR234: 3, AR096: 3, AR039: 3, AR203: 3, AR188: 3, AR033: 3, AR192: 3, AR250: 3, AR104: 2, AR053: 2, AR211: 2, AR313: 2, AR189: 2, AR272: 2, AR308: 2, AR277: 2, AR198: 2, AR271: 2, AR210: 2, AR243: 2, AR312: 2, AR199: 2, AR218: 2, AR283: 2, AR246: 2, AR219: 1, AR193: 1, AR213: 1 S0052: 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

1644	HNGGK63	822862	1654	225 - 296	4251	AR204: 19, AR198: 8, AR186: 8, AR206: 7, AR244: 7, AR061: 6, AR246: 6, AR055: 6, AR241: 6, AR052: 5, AR060: 4, AR089: 4, AR310: 4, AR243: 4, AR192: 4, AR267: 4, AR033: 3, AR283: 3, AR185: 3, AR313: 3, AR271: 3, AR309: 3, AR053: 3, AR312: 3, AR213: 3, AR182: 3, AR249: 3, AR253: 3, AR202: 3, AR299: 3, AR265: 3, AR248: 3, AR316: 3, AR270: 3, AR247: 3, AR286: 3, AR296: 3, AR229: 2, AR183: 2, AR282: 2, AR298: 2, AR268: 2, AR289: 2, AR284: 2, AR300: 2, AR277: 2, AR269: 2, AR238: 2, AR293: 2, AR256: 2, AR175: 1, AR285: 1, AR259: 1, AR292: 1, AR096: 1 S0052: 1	9p13.1-13.3
1645	HNGGK65	847148	1655	38 - 154	4252	AR060: 2, AR316: 1 H0663: 3, L0776: 3, L0747: 3, L0769: 2, L0805: 2, L0748: 2, L0749: 2, S0134: 1, H0351: 1, S0049: 1, H0051: 1, H0428: 1, L0662: 1, L0774: 1, L0792: 1, S0052: 1, L0756: 1, S0031: 1 and L0465: 1	
1646	HNGGL11	745818	1656	392 - 553	4253	AR089: 3, AR316: 3, AR060: 2 L0748: 4, H0637: 1 and	

1647	HNGG005	842158	1657	43 - 108	4254				S0052: 1.		
1648	HNGGS92	866178	1658	107 - 220	4255				S0052: 1		
1649	HNGGT10	866179	1659	1 - 480	4256	Asp-52 to Asn-63, Thr-126 to Gly-134, Glu-142 to Arg-147.			AR241: 13, AR198: 13, AR192: 11, AR204: 10, AR089: 10, AR313: 9, AR194: 9, AR060: 8, AR274: 8, AR104: 8, AR273: 7, AR039: 7, AR246: 7, AR316: 7, AR271: 7, AR186: 7, AR275: 7, AR205: 6, AR243: 6, AR312: 6, AR251: 6, AR185: 6, AR053: 5, AR206: 5, AR061: 5, AR244: 5, AR300: 5, AR310: 5, AR052: 5, AR249: 4, AR277: 4, AR055: 4, AR253: 4, AR213: 4, AR309: 3, AR247: 3, AR096: 3, AR248: 3, AR283: 3, AR240: 3, AR033: 3, AR263: 3, AR184: 3, AR299: 2, AR282: 2, AR295: 2, AR265: 2, AR266: 1, AR269: 1, AR268: 1, L0438: 4, L0665: 3, L0754: 3, H0713: 2, H0637: 2, L0803: 2, L0804: 2, L0806: 2, L0602: 2, L0747: 2, L0771: 2, S0436: 2, H0716: 1, H0730: 1, S0476: 1, H0333: 1, H0486: 1, H0635: 1, H0575: 1, H0052: 1, H0546: 1, H0041: 1, H0081: 1, H0617: 1, H0606: 1, H0124: 1, H0059: 1, H0560: 1, H0130: 1, S0144: 1, S0142: 1, L0369: 1, L5565: 1, L0643: 1, L0764: 1, L0662:		

1650	HNGGT74	772549	1660	153 - 197	4257			1, L0775: 1, L0375: 1, L0805: 1, L0659: 1, L0790: 1, S0052: 1, H0693: 1, L0749: 1, L0750: 1, L0731: 1, L0757: 1, S0434: 1, L0591: 1 and S0276: 1, AR060: 3, AR316: 2, AR089: 1 S0052: 1			
1651	HNGHB89	722238	1661	160 - 165	4258			H0618: 1, H0253: 1, S0052: 1 and H0539: 1, S0052: 1	11		
1652	HNGHD07	608149	1662	248 - 358	4259			S0052: 1			
1653	HNGHK37	609889	1663	234 - 272	4260			AR060: 5, AR316: 3, AR089: 2 S0052: 1			
1654	HNGHM47	825363	1664	18 - 143	4261			S0052: 1			
1655	HNGHT01	604865	1665	54 - 149	4262		Pro-23 to Gly-30, AR060: 5, AR316: 4, AR089: 2 S0052: 2 and H0346: 1, S0052: 2				
1656	HNGHT86	897685	1666	221 - 781	4263		Pro-35 to Arg-47, Ala-51 to Glu-62, Gly-99 to Trp-111, His-121 to Gly-157, AR060: 2, AR316: 2, AR089: 1 S0052: 1				
1657	HNGIH40	638119	1667	100 - 357	4264			S0052: 2, S0428: 2 and L0600: 1, S0052: 2, H0387: 1, H0135: 1, L0803: 1, L0805: 1, L0776: 1, L0783: 1, L0809: 1, L0790: 1, L0779: 1, L0777: 1, L0757: 1 and L0758: 1, S0052: 1 and L0439: 1, 7q21.3-q22.1			118425, 118425, 118425, 152427, 163729, 176450, 180105, 190605, 276000, 276000, 600510, 600725
1658	HNGHK07	825360	1668	227 - 286	4265						120160, 120160, 120160, 126650, 126650, 129900, 154276, 173360, 173360, 183600, 602136, 602136, 602136, 602447
1659	HNGIM40	747699	1669	49 - 150	4266						

1660	HNGIM83	751714	1670	69 - 344	4267		S0052: 1, H0519: 1 and L0595: 1.		
1661	HNGIO93	897527	1671	151 - 597	4268	Ser-32 to Gly-44, Ser-46 to Gly-58.	AR316: 9, AR089: 9, AR060: 9 L0747: 15, L0755: 8, L0731: 8, H0657: 7, L0750: 7, L0758: 5, L0769: 4, L0752: 4, H0617: 3, H0633: 3, L0764: 3, L0740: 3, L0749: 3, H0419: 2, H0483: 2, S0045: 2, H0494: 2, H0641: 2, L0651: 2, L0776: 2, L0809: 2, L0439: 2, S0276: 2, H0543: 2, S0040: 1, H0650: 1, H0656: 1, H0341: 1, H0459: 1, H0125: 1, S0418: 1, H0455: 1, H0587: 1, H0642: 1, H0485: 1, H0486: 1, T0039: 1, H0013: 1, H0156: 1, H0253: 1, H0318: 1, H0052: 1, H0544: 1, H0546: 1, H0081: 1, H0012: 1, H0014: 1, H0239: 1, H0188: 1, H0687: 1, S0312: 1, H0031: 1, H0606: 1, H0674: 1, H0135: 1, H0090: 1, H0063: 1, H0059: 1, T0042: 1, H0561: 1, H0649: 1, S0210: 1, S0422: 1, L0643: 1, L0771: 1, L0521: 1, L0767: 1, L0766: 1, L0551: 1, L0774: 1, L0775: 1, L0655: 1, L0518: 1, L0782: 1, L0383: 1, L0519: 1, L0528: 1, L0789: 1, S0052: 1, S0374: 1, L0352: 1, H0547: 1, H0670: 1, H0666: 1, H0521: 1, S0044: 1, S0037: 1, L0742: 1, L0751: 1, L0780: 1, L0759: 1, S0031: 1, H0445: 1, H0653: 1 and H0423: 1.		
1662	HNGIS27	825351	1672	213 - 374	4269	Met-1 to His-7, Pro-42 to Glu-49.	AR186: 8, AR204: 7, AR246: 7, AR060: 7, AR052: 7, AR053: 6, AR206: 6, AR244: 6.		

1663	HNGIU16	826717	1673	14 - 100	4270		AR061: 5, AR198: 5, AR241: 4, AR282: 4, AR192: 4, AR247: 4, AR275: 4, AR033: 4, AR313: 4, AR312: 4, AR273: 4, AR243: 4, AR202: 4, AR213: 4, AR185: 4, AR089: 4, AR309: 3, AR182: 3, AR053: 3, AR104: 3, AR251: 3, AR316: 3, AR299: 3, AR300: 3, AR039: 3, AR271: 3, AR294: 3, AR183: 3, AR277: 3, AR283: 3, AR265: 3, AR096: 2, AR205: 2, AR175: 2, AR253: 2, AR310: 2, AR249: 2, AR270: 2, AR238: 2, AR253: 2, AR295: 2, AR293: 2, AR231: 2, AR232: 2, AR237: 2, AR240: 2, AR234: 2, AR298: 2, AR267: 2, AR296: 2, AR177: 1, AR226: 1, AR286: 1, AR289: 1, AR266: 1 S0052: 2		
							H0450: 1, H0428: 1 and S0052: 1.		
1664	HNGIX91	564574	1674	155 - 250	4271		S0052: 1		
1665	HNGIAG8	824145	1675	23 - 115	4272		S0052: 1		
1666	HNGIB57	663998	1676	101 - 199	4273		S0052: 1		
1667	HNGIE86	820451	1677	229 - 339	4274		S0052: 1		
1668	HNGIH26	663997	1678	129 - 233	4275	Met-1 to Met-14.	S0052: 1		
1669	HNGIUI1	604485	1679	116 - 208	4276	Met-23 to Val-30.	S0052: 1		
1670	HNGILO7	825345	1680	147 - 335	4277		S0052: 2, S0222: 1, L0455: 1, S0036: 1 and L0366: 1.		

1671	HNGIS66	608638	1681	49 - 162	4278	Gly-25 to Asn-37.	L0794: 7, L0768: 2, S0052: 2, H0040: 1, L0789: 1 and S0216: 1.	
1672	HNGIU60	825336	1682	251 - 418	4279		S0052: 1	
1673	HNGKB09	836060	1683	313 - 396	4280		AR060: 6, AR316: 5, AR089: 3	
1674	HNGKW35	899408	1684	86 - 481	4281	Phe-33 to Leu-38, Pro-45 to Gln-58, Ala-81 to Phe-86, Gly-88 to Gln-97.	H0673: 1 and S0428: 1.	
1675	HNGKY94	835021	1685	290 - 445	4282	Pro-29 to Tyr-36.	AR060: 9, AR316: 7, AR089: 5, S0428: 1	
1676	HNGLD28	836062	1686	403 - 453	4283		AR089: 32, AR316: 24, AR060: 17, S0428: 1	
1677	HNGOY36	834936	1687	299 - 463	4284		AR060: 3, AR316: 3, AR089: 1, S0428: 1	
1678	HNHAB38	609892	1688	69 - 173	4285		AR060: 7, AR316: 6, AR089: 4	
1679	HNHAC43	654859	1689	72 - 176	4286	Ser-28 to Asn-34.	L0745: 9, L0548: 1, S0002: 1, S0428: 1, S0432: 1 and L0746: 1.	
							S0053: 1 and S0028: 1.	
							L0769: 3, L0439: 3, H0676: 2, H0333: 2, L0794: 2, L0783: 2, S0053: 2, S0328: 2, L0748: 2, L0759: 2, H0265: 1, H0556: 1, S0430: 1, H0657: 1, H0341: 1, S0360: 1, S0132: 1, H0393: 1, L0717: 1, H0486: 1, S0010: 1, H0318: 1, H0052: 1, L0471: 1, S0051: 1, H0038: 1, H0040: 1, H0412: 1, H0494: 1, S0016: 1, H0130: 1, S0210: 1, S0422: 1, L0646: 1, L0644: 1, L0771: 1, L0774: 1, L0655: 1, L0527: 1, L0657: 1, L0789: 1, S0216: 1, L0438: 1, L0352: 1, S0330: 1, S0146: 1, S0032: 1, L0749: 1.	

1680	HNHAD34	612845	1690	54 - 137	4287		1, L0779; 1, L0777; 1, L0757; 1, S0242; 1, S0276; 1 and H0423; 1.		
1681	HNHAG83	604993	1691	157 - 282	4288	Ala-24 to Tyr-29.	AR089; 24, AR316; 18, AR060; 12 S0053; 1 S0053; 2, H0171; 1 and S0037; 1.		
1682	HNHAH06	609900	1692	344 - 349	4289		H0313; 1 and S0053; 1.		
1683	HNHAJ65	604996	1693	151 - 174	4290		H0313; 1 and S0053; 1.		
1684	HNHAL61	668254	1694	162 - 275	4291		S0053; 1		
1685	HNHAP58	535713	1695	705 - 722	4292		AR089; 25, AR316; 16, AR060; 8 H0556; 34, H0265; 17, S0422; 15, L0742; 7, L0777; 7, H0013; 6, H0136; 6, L0776; 6, H0547; 6, L0439; 6, L0471; 5, L0805; 5, H0144; 5, H0624; 4, H0141; 4, H0585; 4, H0657; 4, H0599; 4, H0560; 4, L0517; 4, H0519; 4, L0779; 4, S0134; 3, S0376; 3, H0619; 3, H0351; 3, S0278; 3, S0222; 3, H0486; 3, H0457; 3, L0163; 3, L0455; 3, H0040; 3, L0770; 3, L0772; 3, L0375; 3, L0747; 3, L0731; 3, L0599; 3, H0423; 3, H0170; 2, H0583; 2, S0007; 2, L0717; 2, H0586; 2, H0497; 2, S0010; 2, H0263; 2, H0050; 2, H0024; 2, H0356; 2, H0615; 2, H0634; 2, H0616; 2, S0426; 2, L0369; 2, L0809; 2, S0378; 2, L0748; 2, L0759; 2, H0595; 2, H0542; 2, H0171; 1, S0114; 1, S0218; 1, H0656; 1, S0116; 1, H0662; 1, H0305; 1, H0589; 1, H0459; 1, H0638; 1, S0358; 1, S0132; 1, H0369; 1, H0431; 1, H0250;	12p13	103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096

1686	HNHAW34	603386	1696	214 - 252	4293			1, L0021: 1, H0002: 1, H0575: 1, H0274: 1, H0581: 1, S0049: 1, H0196: 1, H0052: 1, H0545: 1, H0041: 1, H0178: 1, H0123: 1, H0057: 1, H0373: 1, H0428: 1, H0039: 1, H0644: 1, T0067: 1, H0272: 1, H0623: 1, T0041: 1, H0494: 1, S0440: 1, S0144: 1, S0344: 1, H0529: 1, L0625: 1, L0535: 1, L0769: 1, L0638: 1, L3904: 1, L0373: 1, L0646: 1, L0642: 1, L0773: 1, L0521: 1, L0766: 1, L0630: 1, L0509: 1, L0655: 1, L0542: 1, L0782: 1, L0792: 1, L0665: 1, S0053: 1, H0698: 1, H0520: 1, H0435: 1, S0328: 1, S0330: 1, H0539: 1, S0380: 1, H0696: 1, H0436: 1, H0576: 1, L0609: 1, S012: 1, S0390: 1, S0037: 1, S014: 1, L0749: 1, L0755: 1, L0758: 1, H0445: 1, S0434: 1, S0436: 1, L0595: 1 and H0422: 1.
1687	HNHAW35	825316	1697	144 - 236	4294			S0053: 1
1688	HNHAY26	704789	1698	777 - 887	4295			AR182: 4, AR269: 4, AR060: 3, AR184: 3, AR293: 3, AR183: 3, AR296: 3, AR282: 3, AR284: 3, AR089: 3, AR298: 3, AR285: 3, AR290: 3, AR241: 3, AR251: 2, AR316: 2, AR295: 2, AR274: 2, AR289: 2, AR291: 2, AR294: 2, AR313: 2, AR268: 2, AR286: 2, AR270: 2, AR292: 2, AR226: 2, AR259: 2, AR219: 2, AR266: 2.

1689	HNHAY86	866180	1699	99 - 113	4296		AR258: 2, AR096: 2, AR267: 2, AR232: 2, AR218: 2, AR263: 2, AR227: 2, AR237: 2, AR175: 2, AR231: 2, AR238: 2, AR265: 2, AR229: 1, AR233: 1, AR299: 1, AR277: 1, AR033: 1 S0053: 1			
1690	HNHAZ20	839696	1700	243 - 356	4297		AR244: 7, AR204: 5, AR289: 5, AR282: 4, AR206: 4, AR055: 4, AR186: 4, AR273: 4, AR286: 4, AR266: 4, AR060: 4, AR294: 3, AR313: 3, AR183: 3, AR291: 3, AR265: 3, AR246: 3, AR061: 3, AR182: 3, AR298: 3, AR296: 3, AR205: 3, AR053: 3, AR243: 3, AR052: 3, AR312: 3, AR293: 3, AR277: 3, AR309: 3, AR269: 3, AR104: 3, AR185: 2, AR283: 2, AR198: 2, AR192: 2, AR299: 2, AR316: 2, AR247: 2, AR033: 2, AR238: 2, AR285: 2, AR213: 2, AR270: 2, AR292: 2, AR290: 2, AR268: 2, AR295: 2, AR259: 2, AR256: 2, AR300: 2, AR258: 2, AR089: 2, AR240: 2, AR253: 2, AR039: 2, AR267: 2,	1q22-q24	104770, 107300, 107670, 110700, 131210, 136132, 145001, 146790, 159440, 159440, 159440, 173610, 186780, 191030, 191315, 600923, 601412, 601518, 601652, 602491	

1691	HNHB21	606789	1701	395 - 529	4298	Val-12 to Lys-18.	AR234: 2, AR232: 2, AR096: 2, AR231: 1, AR284: 1, AR175: 1, AR310: 1, AR229: 1, AR227: 1 S0053: 1		
1692	HNHB38	562730	1702	214 - 672	4299	His-4 to Thr-10, Ser-16 to Ser-25, Leu-107 to Ser-121, Pro-143 to Asp-152.	AR089: 48, AR316: 35, AR060: 24 S0132: 9, S0046: 6, S0418: 5, H0617: 5, H0050: 4, L0602: 4, L0751: 4, H0295: 3, H0013: 3, L0763: 3, L0768: 3, L0639: 3, L0747: 3, L0596: 3, S0040: 2, H0294: 2, S0420: 2, S0376: 2, S0360: 2, S0045: 2, H0250: 2, H0266: 2, H0622: 2, H0551: 2, H0623: 2, H0494: 2, L0646: 2, L0363: 2, L0767: 2, L0649: 2, L0775: 2, L0518: 2, L0783: 2, S3014: 2, S0028: 2, L0588: 2, L0581: 2, L0595: 2, S0276: 2, H0556: 1, H0685: 1, H0341: 1, S0029: 1, H0484: 1, H0661: 1, S0354: 1, S0444: 1, S0408: 1, H0580: 1, H0619: 1, H0645: 1, H0370: 1, H0592: 1, H0497: 1, H0642: 1, S0280: 1, L0021: 1, H0599: 1, H0618: 1, T0048: 1, H0052: 1, T0110: 1, H0046: 1, H0081: 1, H0014: 1, H0051: 1, H0290: 1, S0250: 1, H0644: 1, H0606: 1, H0212: 1, H0135: 1, H0090: 1, H0040: 1, H0634: 1, H0264: 1, H0268: 1, H0412: 1, H0056: 1, S0386: 1, L0564: 1, S0440: 1, H0509: 1, S0210: 1, S0002: 1, L0637: 1, L0772: 1, L0372: 1, L0645: 1, L0764: 1, L0771: 1, L0662: 1, L0386: 1,		

								L0533: 1, L0378: 1, L0655: 1, L0807: 1, L0383: 1, L0809: 1, L0791: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0053: 1, H0144: 1, H0547: 1, H0593: 1, H0435: 1, H0658: 1, H0670: 1, H0672: 1, S0152: 1, S0332: 1, H0479: 1, L0743: 1, L0748: 1, L0754: 1, L0749: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, L0591: 1, L0593: 1, L0601: 1, S0011: 1, H0668: 1, H0665: 1, H0422: 1, S0424: 1 and H0506: 1.		
1693	HNHBG18	604924	1703	657 - 665	4300			S0053: 1 and S0216: 1.		
1694	HNHB165	566816	1704	161 - 301	4301			S0053: 1		
1695	HNHB16	566866	1705	374 - 601	4302	Ser-18 to Met-41, Gly-58 to Glu-69.		H0341: 1, S0001: 1 and S0053: 1.		
1696	HNHC178	694637	1706	293 - 361	4303			S0428: 1 and S0053: 1.		
1697	HNHC14	651348	1707	55 - 207	4304	Asp-6 to Glu-12.		S0053: 1 and H0422: 1.		
1698	HNHCQ44	606791	1708	183 - 275	4305			S0053: 1		
1699	HNHC122	664496	1709	226 - 264	4306			AR060: 6, AR316: 4, AR089: 3		
1700	HNHC147	634691	1710	73 - 192	4307	Asn-25 to Thr-33.		S0046: 1 and S0053: 1. AR089: 20, AR316: 17, AR060: 14		
1701	HNHCY48	737905	1711	115 - 231	4308			S0053: 2 and S0046: 1.		
1702	HNHCZ54	824072	1712	32 - 127	4309			S0053: 1		
								L0439: 7, S0222: 6, H0013: 6, L0771: 4, L0805: 3, L0776: 3, S0053: 3, L0438: 3, L0755: 3, S0007: 2, H0156: 2, S6028: 2, H0555: 2, L0366: 2, H0394: 1, H0556: 1, S6024: 1, H0657: 1, L0005: 1, H0443: 1, S6016: 1, H0486: 1, H0244: 1, H0250: 1, H0253: 1, S0010: 1, H0563: 1, H0264: 1, H0272: 1, L0351: 1, L0370: 1, L0638: 1, L0794: 1.		

1703	HNHDC52	812424	1713	207 - 299	4310		1, L0775: 1, L0659: 1, S0328: 1, S0152: 1, H0576: 1, S0028: 1 and H0543: 1.		
1704	HNHDD95	835370	1714	140 - 184	4311		AR060: 8, AR316: 7, AR089: 5		
1705	HNHDE58	566782	1715	272 - 386	4312	His-16 to Lep-21, Pro-32 to Val-37.	S0222: 1 and S0053: 1, S0053: 1		
							AR060: 5, AR316: 4, H0494: 17, H0551: 13, S0418: 12, H0521: 11, S0358: 6, L0659: 6, L0526: 6, L0665: 6, S0442: 5, H0519: 5, S0328: 5, H0545: 4, H0553: 4, H0509: 4, L0794: 4, L0766: 4, L0666: 4, L0663: 4, L0603: 4, H0543: 4, H0265: 3, S0356: 3, H0617: 3, H0488: 3, L0761: 3, L0667: 3, L0662: 3, L0809: 3, S0126: 3, S0406: 3, L0759: 3, H0294: 2, T0049: 2, H0657: 2, S0354: 2, S0376: 2, S0444: 2, S0360: 2, S0408: 2, H0587: 2, H0486: 2, H0375: 2, H0687: 2, H0181: 2, H0412: 2, T0042: 2, H0561: 2, H0529: 2, L0638: 2, L0771: 2, L0637: 2, L0664: 2, S0053: 2, L0438: 2, H0520: 2, H0547: 2, H0522: 2, H0555: 2, L0740: 2, L0751: 2, L0755: 2, L0731: 2, L0757: 2, S0434: 2, L0596: 2, L0581: 2, L0599: 2, H0624: 1, H0556: 1, H0683: 1, H0713: 1, S0024: 1, H0650: 1, H0484: 1, H0661: 1, H0663: 1, S0348: 1, S0420: 1, S0410: 1, H0637: 1, H0722: 1, L0717: 1, H0437: 1, H0370: 1, H0586: 1, H0559: 1, H0250: 1, H0427: 1, H0156: 1, H0599: 1, T0048: 1, H0581: 1.		

1706	HNHD17	738043	1716	1175 - 1201	4313		1, H0052: 1, H0251: 1, H0546: 1, H0046: 1, N0006: 1, L0471: 1, H0012: 1, H0620: 1, H0024: 1, H0015: 1, L0163: 1, H0083: 1, H0594: 1, H0060: 1, H0266: 1, H0179: 1, H0688: 1, T0006: 1, L0055: 1, H0124: 1, H0708: 1, H0135: 1, H0087: 1, H0413: 1, H0560: 1, S0440: 1, H0633: 1, S0208: 1, H0695: 1, L0640: 1, L0769: 1, L5575: 1, L0800: 1, L0374: 1, L0773: 1, L0768: 1, L0774: 1, L0523: 1, L0806: 1, L0653: 1, L0655: 1, L0661: 1, L0628: 1, L0518: 1, L0383: 1, L0382: 1, L0519: 1, L0368: 1, L0788: 1, H0693: 1, H0689: 1, H0690: 1, H0683: 1, H0684: 1, H0435: 1, H0659: 1, H0658: 1, H0672: 1, S0330: 1, H0539: 1, H0696: 1, S0432: 1, S0027: 1, L0750: 1, L0752: 1, L0758: 1, S0436: 1, L0591: 1, L0593: 1, H0668: 1, S0026: 1, H0653: 1, H0542: 1, H0423: 1, S0424: 1 and L0600: 1.		
							AR089: 15, AR316: 13, AR060: 10, S0053: 1		
1707	HNHDL37	610113	1717	94 - 186	4314		S0053: 1		
1708	HNHDM21	610114	1718	19 - 198	4315	Glu-33 to Tyr-38.	S0053: 1		
1709	HNHDM37	638121	1719	117 - 215	4316	Leu-24 to Gly-32.	S0053: 1		
1710	HNHDM96	664497	1720	291 - 395	4317		S0053: 1		
1711	HNHDM62	610094	1721	311 - 358	4318		S0053: 1		
1712	HNHDM34	607867	1722	332 - 433	4319		AR313: 16, AR161: 13, AR162: 12, AR163: 12, AR173: 10, AR165: 10, AR089: 10, AR300: 10, AR164: 9, AR166: 9.		

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1713	HNHDX28	608145	1723	170 - 322				Arg-29 to Ser-35, Pro-39 to Gly-45.		AR290: 3, AR255: 3, AR203: 3, AR104: 3, AR227: 3, AR200: 3, AR170: 3, AR177: 3, AR217: 2, AR311: 2, AR224: 2, AR190: 2, AR250: 2, AR232: 2, AR055: 2, AR263: 2, AR061: 2, AR188: 2, AR246: 2, AR283: 2, AR172: 2, AR205: 1, AR171: 1, AR210: 1, S0053: 1	
1714	HNHDX26	569774	1724	282 - 350	4320					S0053: 1	
1715	HNHDX42	608299	1725	282 - 287	4321					S0053: 1	
1716	HNHEF37	825295	1726	180 - 230	4322					S0053: 1	
1717	HNHEF49	668256	1727	70 - 132	4323					S0053: 1	
1718	HNHEF70	610115	1728	7 - 111	4324					S0053: 1 and L0745: 1.	
1719	HNHEG30	638122	1729	219 - 371	4325					S0053: 1	
1720	HNHEH38	638123	1730	267 - 371	4326			Pro-34 to Arg-43.		S0053: 1	
1721	HNHEH22	607421	1731	88 - 207	4327			Met-1 to Pro-10.		S0053: 1	
1722	HNHEN70	854712	1732	67 - 612	4329			Gln-93 to Cys-99.		S0053: 1	
										AR176: 6, AR162: 5, AR161: 5, AR163: 5, AR217: 4, AR202: 4, AR235: 4, AR178: 4, AR228: 4, AR055: 4, AR310: 3, AR261: 3, AR236: 3, AR186: 3, AR244: 3, AR273: 3, AR225: 3, AR188: 3, AR239: 3, AR264: 3, AR272: 3, AR246: 3, AR165: 3, AR262: 3, AR206: 3, AR061: 3, AR181: 3, AR311: 3, AR198: 3, AR053: 3, AR052: 3, AR200: 3.	

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1723	HNHEP21	609903	1733	175 - 270	4330			1, L0806: 1, L0805: 1, L0776: 1, L0807: 1, L0515: 1, L0809: 1, L0792: 1, L0793: 1, L0665: 1, S0053: 1, H0144: 1, H0520: 1, H0414: 1, H0658: 1, H0660: 1, H0672: 1, H0522: 1, S0406: 1, H0436: 1, S0037: 1, L0740: 1, L0745: 1, L0779: 1, L0780: 1, S0031: 1, S0436: 1, L0597: 1, L0588: 1, L0604: 1, L0601: 1, H0543: 1, H0423: 1 and H0422: 1.		
1724	HNHEP41	638124	1734	184 - 276	4331		Ser-20 to Ser-26.	S0053: 1		
1725	HNHEP33	847418	1735	61 - 180	4332			H0623: 1 and S0053: 1.		
1726	HNHEP16	609904	1736	208 - 288	4333			H0637: 1 and S0053: 1.		
1727	HNHEP29	569772	1737	131 - 367	4334		Met-1 to Pro-6, Leu-56 to Gln-68.	S0053: 1		
1728	HNHEZ76	618544	1738	52 - 72	4335			S0053: 2		
1729	HNHEP60	612778	1739	28 - 147	4336			S0053: 1		
1730	HNHEP81	732075	1740	307 - 405	4337			S0001: 1, S0052: 1 and S0053: 1.		
1731	HNHEP49	810955	1741	26 - 112	4338			T0042: 1 and S0053: 1.		
1732	HNHEP42	638127	1742	22 - 123	4339		Arg-19 to Arg-29.	S0053: 1		
1733	HNHEP25	580792	1743	244 - 360	4340		Pro-16 to Ala-21.	AR089: 28, AR316: 20, AR060: 13		
								H0402: 1, S0053: 1 and S0028: 1.		
1734	HNHGD95	609905	1744	69 - 188	4341		Asn-25 to Thr-33.	S0053: 2 and S0046: 1.		
1735	HNHGR82	617117	1745	287 - 475	4342			AR060: 8, AR316: 7, AR089: 7		
								S0053: 1		
1736	HNHGS62	609907	1746	195 - 296	4343		Gln-17 to Asn-28.	S0053: 1		
1737	HNHGX77	638128	1747	298 - 387	4344		Met-1 to Ser-6.	AR060: 8, AR316: 7, AR089: 6	19p13	601011, 601011, 601768, 601843
								H0253: 18, H0618: 16, H0052: 10, L0747: 8, H0024: 7, H0424: 7, L0779: 7, H0584: 6, L0769: 6, H0494: 5, L0514: 6.		

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1738	HNHHA47	658743	1748	27 - 56	4345		1, L0375: 1, L0378: 1, L0655: 1, L0657: 1, L0511: 1, L0512: 1, L0636: 1, L0782: 1, L0783: 1, L0883: 1, L0787: 1, L0792: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0053: 1, H0691: 1, H0547: 1, H0519: 1, H0435: 1, H0670: 1, H0648: 1, H0672: 1, H0539: 1, L0602: 1, S0152: 1, H0522: 1, H0696: 1, H0187: 1, H0436: 1, S3014: 1, S0027: 1, S0028: 1, S0032: 1, L0750: 1, L0786: 1, L0755: 1, H0445: 1, S0434: 1, S0436: 1, S0192: 1, S0194: 1, S0042: 1 and H0506: 1.		
1739	HNHN22	855956	1749	104 - 217	4346		L0761: 2, L0517: 2, L0809: 2, S0442: 1, S0408: 1, H0014: 1, H0647: 1, L0800: 1, L0764: 1 and S0053: 1.		
1740	HNHNW53	604903	1750	142 - 183	4347		S0053: 1		
1741	HNHIB40	533057	1751	273 - 326	4348		AR060: 7, AR316: 5, AR089: 3		
1742	HNHK174	777856	1752	127 - 159	4349		S0053: 1		
1743	HNHKV56	800877	1753	294 - 494	4350		S0216: 1		
1744	HNHLD80	839255	1754	164 - 352	4351		S0216: 1 and L0746: 1, AR089: 15, AR316: 13, AR060: 10		
1745	HNHLS76	853372	1755	138 - 257	4352		H0663: 1 and S0216: 1, Pro-26 to Pro-33, AR060: 2, AR316: 2, AR089: 1	Xq13	300011, 300011, 300032, 300032, 301310, 305100, 305450, 308380, 308380, 309605, 311800, 311800, 311870, 314580
1746	HNHLZ47	838255	1756	177 - 281	4353		H0179: 1, S0052: 1 and S0216: 1, AR060: 4, AR316: 3.		

1747	HNHMP15	836065	1757	51 - 242	4354	Pro-22 to Gly-29, His-48 to Ser-62.	AR089: 2 S0216: 2		
1748	HNHMP62	834974	1758	220 - 330	4355		AR060: 6, AR316: 4, AR089: 2 S0216: 1		
1749	HNHMY76	838256	1759	25 - 192	4356	Glu-25 to Ser-37.	AR060: 5, AR316: 4, AR089: 2 S0216: 1		
1750	HNHMD201	836066	1760	250 - 351	4357		AR089: 19, AR316: 15, AR060: 10 H0658: 2, S0216: 1 and L0777: 1.		
1751	HNHND14	836067	1761	255 - 392	4358		AR060: 6, AR316: 5, AR089: 3 S0216: 1		
1752	HNHND94	840374	1762	17 - 112	4359	Met-1 to Gln-12.	AR060: 7, AR316: 6, AR089: 4 S0052: 1 and S0216: 1.		
1753	HNHOF9	838264	1763	539 - 739	4360	Gln-14 to Ser-32, Pro-53 to Leu-60.	AR060: 3, AR316: 3, AR089: 1 S0216: 1		
1754	HNKAA76	802009	1764	384 - 527	4361	Pro-20 to Pro-28, Pro-36 to Cys-41.	AR089: 4, AR316: 2, AR060: 1 H0040: 6, H0556: 4, L0646: 4, H0265: 3, H0253: 3, H0046: 3, L0794: 3, L0439: 3, S0436: 3, S0040: 2, H0618: 2, H0309: 2, H0622: 2, H0494: 2, L0764: 2, L0776: 2, L0809: 2, L0751: 2, L0758: 2, H0542: 2, H0341: 1, S0356: 1, S0360: 1, H0550: 1, H0156: 1, H0581: 1, H0231: 1, H0572: 1, H0012: 1, H0057: 1, H0355: 1, H0039: 1, H0163: 1, H0090: 1, H0551: 1, S0038: 1, H0100: 1, H0646: 1, L0640:		

1755	HNTA#42	824082	1765	82 - 231	4362	Lys-30 to Pro-36.	1, L0371: 1, L0667: 1, L0648: 1, L5564: 1, L0803: 1, L0806: 1, L0659: 1, L0789: 1, L0665: 1, H0690: 1, H0435: 1, H0658: 1, H0660: 1, H0672: 1, S0330: 1, S0406: 1, L0750: 1, L0752: 1, L0731: 1, L0757: 1, S0434: 1, L0593: 1, H0422: 1, S0042: 1, S0424: 1 and H0008: 1.		
1756	HNTCG32	897776	1766	178 - 1254	4363	Tyr-63 to Thr-74, Gly-135 to Trp-142, Asn-165 to Lys-171, Glu-210 to Lys-232, Ser-244 to Leu-250, Glu-284 to Asp-289, Asp-321 to Asn-333.	H0057: 1, H0014: 1, H0687: 1, H0135: 1, L0763: 1, L0774: 1, L0783: 1, L0809: 1, H0519: 1, L0751: 1, L0755: 1 and H0422: 1.		
						AR194: 22, AR281: 17, AR202: 17, AR280: 16, AR246: 16, AR198: 14, AR314: 14, AR265: 14, AR315: 13, AR243: 13, AR205: 13, AR206: 12, AR263: 12, AR192: 12, AR244: 12, AR039: 11, AR241: 10, AR033: 10, AR266: 10, AR053: 10, AR204: 10, AR251: 10, AR310: 9, AR271: 9, AR283: 9, AR213: 9, AR274: 9, AR299: 8, AR284: 8, AR270: 8, AR289: 8, AR275: 8, AR282: 8, AR096: 8, AR285: 7, AR309: 7, AR052: 7, AR268: 7, AR300: 7, AR089: 7, AR277: 7, AR312: 7, AR273: 7, AR313: 7, AR295: 7, AR32: 7, AR253: 7, AR296: 6, AR249: 6, AR316: 6, AR290: 6, AR291: 6,			

1757	HNTNY89	886188	1767	158 - 271	4364	Cys-31 to Leu-37.	AR269: 6, AR182: 6, AR104: 6, AR183: 6, AR248: 6, AR055: 6, AR298: 5, AR240: 5, AR247: 5, AR267: 5, AR286: 5, AR292: 5, AR177: 5, AR294: 4, AR186: 4, AR226: 4, AR175: 4, AR234: 4, AR185: 4, AR227: 4, AR238: 4, AR060: 4, AR258: 4, AR229: 4, AR184: 4, AR293: 3, AR218: 3, AR231: 3, AR061: 3, AR237: 3, AR233: 3, AR256: 3, AR259: 3, AR179: 2, AR219: 2 L0777: 6, L0747: 4, L0731: 4, L0803: 3, L0749: 3, L0759: 3, S0474: 2, L0794: 2, L0744: 2, L0754: 2, L0750: 2, H0638: 1, H0208: 1, H0427: 1, S0250: 1, H0383: 1, H0135: 1, H0488: 1, S0352: 1, L0638: 1, L0630: 1, L0804: 1, L0790: 1, L0792: 1, H0519: 1, H0710: 1, L0756: 1, L0752: 1 and H0445: 1. AR238: 14, AR227: 12, AR183: 11, AR232: 10, AR281: 10, AR263: 10, AR246: 9, AR315: 9, AR283: 9, AR060: 9, AR194: 9, AR234: 9, AR313: 8, AR265: 8, AR310: 8, AR282: 8, AR233: 7, AR237: 7, AR061: 7, AR226: 7, AR184: 7, AR192: 7, AR289: 7, AR229: 7.
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1759	HNTRQ40	809100	1769	132 - 407	4366	Thr-17 to Cys-25, Pro-27 to Arg-41, Pro-55 to Thr-67, Ser-82 to Gln-91.	AR231: 1, AR185: 1, AR218: 1, AR255: 1, AR170: 1, AR232: 1, AR227: 1, AR210: 1, AR178: 1, AR294: 1, AR197: 1, AR293: 1, AR174: 1, AR182: 1, H0735: 1 and H0547: 1.			
1760	HNTSQ23	645176	1770	1255 - 1371	4367		AR244: 4, AR183: 3, AR310: 3, AR295: 3, AR265: 3, AR263: 2, AR280: 2, AR194: 2, AR312: 2, AR292: 2, AR294: 2, AR268: 2, AR096: 2, AR232: 2, AR315: 2, AR237: 1, AR274: 1, AR314: 1, AR238: 1, AR293: 1, AR291: 1, AR269: 1, AR277: 1, AR033: 1, AR227: 1, AR313: 1, AR282: 1, AR052: 1, AR309: 1, AR281: 1, AR229: 1, AR270: 1, AR267: 1, AR298: 1, AR285: 1, AR213: 1, AR251: 1, AR284: 1, L0766: 3, H0521: 3, H0619: 2, H0039: 2, H0040: 2, S0052: 2, H0556: 1, S0212: 1, S0420: 1, H0734: 1, S0007: 1, S0045: 1, H0559: 1, H0575: 1, H0271: 1, H0284: 1, H0553: 1, H0623: 1, H0022: 1, H0547: 1, H0593: 1, S0126: 1, H0435: 1, H0539: 1 and H0576: 1.	AR089: 8, AR316: 6, AR060: 5 L0756: 5, H0051: 4, L0438: 4, L0759: 4, S0031: 4, S0007:	3p13-q23	156845, 156845, 156845, 164500, 182280, 227646, 261510, 600151,

I761	HOAAH51	855961	I771	187 - 363	4368	He-5 to Tyr-10.	3, S6028: 3, L0666: 3, L0439: 3, H0556: 2, S6024: 2, S0300: 2, H0013: 2, S0036: 2, L0770: 2, L0411: 1, L0393: 1, H0393: 1, H0581: 1, H0235: 1, H0327: 1, H0046: 1, H0009: 1, L0157: 1, H0201: 1, S0051: 1, H0399: 1, H0064: 1, H0038: 1, H0040: 1, H0634: 1, H0100: 1, L0638: 1, L0796: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0606: 1, L0791: 1, L0792: 1, H0144: 1, H0698: 1, H0547: 1, H0519: 1, H0659: 1, L0779: 1, L0752: 1, S0260: 1 and H0136: 1.	600163, 601154
							H0543: 8, H0046: 7, L0766: 7, L0731: 6, H0619: 5, L0794: 5, L0665: 5, L0740: 5, S0134: 4, H0486: 4, H0615: 4, L0666: 4, L0663: 4, H0624: 3, H0171: 3, H0657: 3, S0001: 3, H0255: 3, H0252: 3, H0038: 3, H0100: 3, L0758: 3, L0759: 3, S0192: 3, H0423: 3, S0218: 2, H0583: 2, H0650: 2, S0360: 2, H0369: 2, H0333: 2, H0331: 2, L0021: 2, T0082: 2, H0620: 2, H0024: 2, S0031: 2, H0424: 2, L0598: 2, L0763: 2, L0776: 2, L0655: 2, L0659: 2, L0647: 2, L0664: 2, H0660: 2, H0539: 2, H0555: 2, L0747: 2, L0756: 2, H0445: 2, L0605: 2, S0242: 2, H0170: 1, H0585: 1, S0114: 1, S0116: 1, S0212: 1, S0400: 1, H0254: 1, H0663: 1, H0662: 1, H0638: 1, S0418: 1, S0354: 1, S0376: 1, S0408: 1, T0008: 1, H0637: 1, S0045: 1, H0441: 1, H0013: 1, S0010: 1, T0071: 1, H0052:	

1762	HOAA176	824073	1772	121 - 171	4369	Gly-2 to Ser-8.	1, H0251: 1, H0596: 1, H0457: 1, H0571: 1, L0471: 1, S0050: 1, H0051: 1, T0010: 1, H0399: 1, S0250: 1, S0003: 1, T0006: 1, H0644: 1, H0032: 1, H0591: 1, T0067: 1, H0264: 1, H0059: 1, T0041: 1, H0561: 1, H0641: 1, H0646: 1, S0422: 1, H0695: 1, L4497: 1, L0637: 1, L0646: 1, L0764: 1, L0662: 1, L0774: 1, L0375: 1, L0651: 1, L0378: 1, L0809: 1, L0789: 1, H0701: 1, H0547: 1, H0593: 1, S0126: 1, H0684: 1, H0658: 1, H0666: 1, H0648: 1, H0672: 1, S0328: 1, S0378: 1, H0696: 1, S0174: 1, H0436: 1, S0027: 1, S0206: 1, L0745: 1, L0779: 1, S0260: 1, L0591: 1, L0593: 1, L0595: 1, S0026: 1, H0667: 1, H0136: 1, H0422: 1, L0465: 1, S0424: 1, S0458: 1 and H0506: 1. L0766: 7, H0486: 6, L0665: 6, L0747: 6, L0731: 6, L0764: 5, L0662: 5, L0794: 5, L0439: 5, L0740: 5, H0615: 4, L0774: 4, L0776: 4, L0663: 4, H0543: 4, H0171: 3, S0001: 3, H0052: 3, H0252: 3, H0038: 3, L0646: 3, L0375: 3, L0659: 3, H0555: 3, L0750: 3, L0756: 3, L0758: 3, L0759: 3, S0192: 3, H0624: 2, H0650: 2, H0657: 2, S0376: 2, S0045: 2, H0333: 2, H0331: 2, L0021: 2, H0024: 2, H0051: 2, H0059: 2, L0598: 2, L0763: 2, L0769: 2, L0637: 2, L0771: 2, L0647: 2, L0789: 2, L0666: 2, H0660: 2, H0539: 2, H0436: 2, S0434: 2, S0436: 2, S0242:	17p13.3	113721, 247200, 600059, 601545
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1763	HOAAJ09	654862	1773	60 - 173	4370	Gly-28 to Ser-37.	L0439: 5, L0779: 3, L0766: 2, L0756: 2, H0441: 1, H0599: 1, H0434: 1, H0051: 1, H0252: 1, H0328: 1, L0518: 1, L0599: 1 and L0366: 1.	
1764	HOAAJ10	566867	1774	20 - 262	4371	Pro-52 to Met-57.	H0252: 1	

1765	HOAAUI3	634732	1775	182 - 262	4372	Ser-73 to Phe-79	H0309: 2, H0252: 1 and H0144: 1		
1766	HOABCI2	801922	1776	186 - 275	4373		L0439: 7, L0748: 5, H0255: 4, H0253: 4, H0012: 3, H0620: 3, H0617: 3, L0783: 3, L0438: 3, H0618: 2, H0046: 2, L0769: 2, L0766: 2, L0532: 2, L0663: 2, H0521: 2, L0750: 2, L0777: 2, L0592: 2, H0543: 2, H0650: 2, L0592: 2, H0543: 2, H0650: 1, S0212: 1, S0001: 1, H0483: 1, H0254: 1, H0638: 1, S0418: 1, S0358: 1, H0580: 1, S0468: 1, H0549: 1, H0659: 1, H0013: 1, S0280: 1, H0318: 1, H0052: 1, H0024: 1, H0252: 1, H0424: 1, H0553: 1, H0644: 1, H0124: 1, H0376: 1, H0135: 1, H0040: 1, H0087: 1, H0488: 1, T0042: 1, H0494: 1, H0509: 1, L0768: 1, L0388: 1, L0657: 1, L0659: 1, L0789: 1, L0352: 1, S0126: 1, H0689: 1, H0658: 1, H0670: 1, S0378: 1, H0436: 1, H0478: 1, H0626: 1, L0742: 1, L0780: 1, L0731: 1, H0445: 1, L0608: 1, L0366: 1 and S0276: 1.	22q13.33	120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145
1767	HOABH36	740758	1777	181 - 396	4374		L0764: 9, L0747: 6, L0766: 5, L0662: 3, L0070: 3, L0748: 3, S0222: 2, H0014: 2, H0561: 2, L0529: 2, L0758: 2, L0596: 2, H0265: 1, H0583: 1, S0356: 1, S0360: 1, L0021: 1, H0581: 1, S0309: 1, H0596: 1, H0545: 1, H0172: 1, H0188: 1, S0214: 1, H0252: 1, H0615: 1, H0553: 1, L0456: 1, H0135: 1, H0264: 1, S0426: 1, L0769: 1, L0646: 1, L0641: 1, L0645: 1, L0773: 1, L0768: 1, L0774: 1, L0775: 1.	21q22.3	120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145

1768	HOBNA89	604999	1778	15 - 128	4375	His-18 to Gly-23, Ser-31 to Trp-36.	1, L0375: 1, L0378: 1, L0655: 1, L0658: 1, L0659: 1, L0783: 1, L0532: 1, L0666: 1, L0664: 1, H0144: 1, H0689: 1, H0521: 1, L0611: 1, S0432: 1, S0028: 1, L0439: 1, L0749: 1, L0757: 1, L0759: 1, L0589: 1, L0591: 1, L0599: 1, L0601: 1, H0543: 1 and H0423: 1. H0365: 1	13q32.1- 13q32.3
1769	HOBNE51	580861	1779	223 - 426	4376	Ser-6 to Asp-14, Pro-53 to Gln-60.	L0731: 10, L0758: 10, H0038: 9, L0748: 9, L0439: 9, H0551: 5, L0777: 5, L0591: 5, S0192: 5, H0013: 4, H0581: 4, H0090: 4, H0616: 4, L0749: 4, L0602: 3, L0747: 3, S0212: 2, S0420: 2, H0351: 2, S0222: 2, H0370: 2, H0392: 2, H0318: 2, H0596: 2, T0110: 2, H0123: 2, L0471: 2, S0250: 2, L0483: 2, H0032: 2, S0366: 2, H0135: 2, H0591: 2, S0422: 2, L0521: 2, L0766: 2, L0774: 2, L0775: 2, L0809: 2, H0144: 2, S0126: 2, L0743: 2, L0752: 2, H0444: 2, L0596: 2, L0588: 2, L0485: 2, L0608: 2, L0595: 2, H0665: 2, S0194: 2, S0412: 2, H0170: 1, T0049: 1, S0418: 1, S0007: 1, S0046: 1, H0619: 1, H0441: 1, H0497: 1, H0486: 1, T0109: 1, S0280: 1, H0108: 1, H0042: 1, H0618: 1, S0182: 1, H0052: 1, H0251: 1, H0309: 1, H0544: 1, H0046: 1, H0050: 1, H0023: 1, S0388: 1, H0275: 1, H0510: 1, S0028: 1, H0267: 1, H0271: 1, H0290: 1, H0615: 1, H0428: 1, T0006: 1, H0553: 1, S0364: 1.	

1770	HODAH24	656887	1780	39 - 131	4377				TO067: 1, H0413: 1, H0100: 1, S0210: 1, S0426: 1, H0529: 1, L0769: 1, L0761: 1, L0372: 1, L0662: 1, L0363: 1, L0803: 1, L0375: 1, L0657: 1, L0384: 1, L0663: 1, L0664: 1, H0547: 1, H0365: 1, H0666: 1, H0672: 1, S0328: 1, S0380: 1, S0152: 1, H0521: 1, S3014: 1, S0027: 1, S0206: 1, L0740: 1, L0750: 1, H0445: 1, L0599: 1, S0196: 1, H0543: 1 and S0424: 1.	
1771	HODAH46	862551	1781	201 - 575	4378				H0328: 1 AR215: 4, AR282: 3, AR192: 3, AR224: 3, AR168: 2, AR171: 2, AR225: 2, AR165: 2, AR291: 2, AR176: 2, AR214: 2, AR250: 2, AR182: 2, AR181: 2, AR089: 2, AR270: 1, AR217: 1, AR164: 1, AR277: 1, AR195: 1, AR296: 1, AR246: 1, AR166: 1, AR267: 1, AR177: 1, AR312: 1, AR180: 1, AR104: 1, AR210: 1, AR216: 1, AR286: 1 H0052: 3, H0050: 2, H0650: 1, H0657: 1, S0212: 1, S0358: 1, S0045: 1, H0586: 1, H0575: 1, H0046: 1, H0292: 1, H0328: 1, H0622: 1, H0135: 1, L0766: 1, S0374: 1, H0648: 1, H0539: 1, H0521: 1, L0750: 1, L0591: 1, H0542: 1 and S0460: 1.	
1772	HODAV25	787471	1782	19 - 39	4379				AR089: 11, AR316: 10, AR060: 10 L0803: 7, L0754: 7, H0694: 15	

1773	HODAW64	840069	1783	3184 - 3285	4380	Gly-6 to Lys-12.	5, L0794: 4, S0360: 3, H0373: 3, L0804: 3, L0438: 3, L0439: 3, L0752: 3, L0470: 2, H0497: 2, H0625: 2, L0651: 2, L0657: 2, L0663: 2, H0682: 2, L0741: 2, L0747: 2, L0756: 2, L0759: 2, H0686: 1, H0656: 1, H0663: 1, S0354: 1, H0156: 1, L0021: 1, S0010: 1, L0040: 1, L0471: 1, S0051: 1, H0328: 1, H0428: 1, H0674: 1, H0135: 1, S0038: 1, H0494: 1, L0763: 1, L0768: 1, L0774: 1, L0775: 1, L0375: 1, L0784: 1, L0661: 1, L0809: 1, L0666: 1, L0665: 1, H0690: 1, H0672: 1, S0330: 1, S0378: 1, L0750: 1, L0779: 1, L0777: 1, L0755: 1, H0665: 1, S0242: 1 and H0542: 1.	8		
1774	HODAY17	806341	1784	2128 - 2175	4381	AR060: 5, AR316: 5, AR089: 5 L0748: 9, L0439: 5, L0717: 4, L0659: 4, L0663: 4, H0658: 4, H0656: 3, S0045: 3, H0486: 3, L0766: 3, L0666: 3, L0744: 3, L0749: 3, L0758: 3, H0542: 3, H0265: 2, H0556: 2, H0458: 2, H0587: 2, H0599: 2, H0318: 2, H0266: 2, L0770: 2, L0769: 2, L0646: 2, L0665: 2, H0682: 2, H0436: 2, S0028: 2, L0747: 2, L0756: 2, L0752: 2, L0731: 2, L0608: 2, H0543: 2, H0423: 2, S0040: 1, H0402: 1, S0418: 1, S0360: 1, H0619: 1, H0392: 1, H0643: 1, H0635: 1, S0280: 1, H0042: 1, H0581: 1, H0052: 1, L0471: 1, H0620: 1, H0024: 1	12q13.1	126337, 600808, 601284, 601769, 601769, 602116		

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1775	HODBA45	601517	1785	179 - 307	4382		H0328: 1 and L0747: 1.			
1776	HODBC79	566781	1786	179 - 283	4383		S0360: 7, L0803: 4, L0659: 4, L0666: 3, L0663: 3, S0356: 2, H0328: 2, L0637: 2, H0666: 2, L0777: 2, L0731: 2, L0757: 2, S0192: 2, S0040: 1, S0342: 1, S0376: 1, T0008: 1, S6026: 1, H0486: 1, H0545: 1, H0598: 1, H0412: 1, H0413: 1, S0210: 1, L0646: 1, L0662: 1, L0606: 1, L0518: 1, L0664: 1, L0665: 1, L0565: 1, H0638: 1, L0439: 1, L0745: 1 and H0653: 1.			
1777	HODBD79	638131	1787	91 - 369	4384	Asp-18 to Asn-24, Thr-42 to Ala-49.	L0731: 2, H0635: 1, H0318: 1, H0581: 1, H0328: 1, L0766: 1, L0783: 1, L0809: 1, L0666: 1, L0665: 1, S0052: 1, L0459: 1, L0740: 1, L0747: 1, L0780: 1, L0752: 1, L0758: 1, L0362: 1, L0366: 1 and S0424: 1.			
1778	HODBF12	584792	1788	68 - 79	4385		S0360: 20, L0659: 15, L0777: 13, S0003: 9, S0356: 6, L0794: 6, L0663: 6, S0192: 6, H0486: 5, L0803: 5, L0666: 5, L0731: 5, L0757: 5, S0250: 4, H0412: 4, H0413: 4, S0011: 1.	8		

1779	HODBF86	605001	1789	228 - 269	4386		4, S0376: 3, L0662: 3, H0658: 3, S0212: 2, H0431: 2, S0214: 2, H0328: 2, H0090: 2, H0646: 2, S0210: 2, L0637: 2, L0657: 2, S0126: 2, H0666: 2, L0439: 2, S0194: 2, H0171: 1, S0040: 1, S0342: 1, H0661: 1, T0008: 1, S6026: 1, L0717: 1, H0411: 1, S6016: 1, H0427: 1, H0590: 1, H0545: 1, H0266: 1, H0628: 1, H0032: 1, H0598: 1, H0163: 1, H0551: 1, T0004: 1, L0564: 1, S0440: 1, L0762: 1, L0646: 1, L0649: 1, L0606: 1, L0629: 1, L0636: 1, L0518: 1, L0809: 1, L0790: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, L0565: 1, H0365: 1, H0684: 1, S0027: 1, S0028: 1, L0745: 1, L0779: 1, L0738: 1, S0436: 1, S0026: 1, H0653: 1 and L0465: 1, H0328: 2 and H0509: 1.	Iq32	114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 600105, 600759, 601494, 601975
1780	HODBF91	633731	1790	383 - 484	4387		AR060: 7, AR316: 7, AR089: 6 L0438: 2, H0170: 1, S0358: 1, S0408: 1, H0574: 1, H0485: 1, H0545: 1, H0373: 1, H0328: 1, S0422: 1, L0520: 1, L0766: 1, L0803: 1, L0774: 1, L0665: 1, H0547: 1, S0126: 1, L0439: 1 and L0759: 1.	I	

1781	HODBW34	877655	1791	241 - 285	4388		H0179: 2, H0328: 1, H0316: 1 and L0748: 1.		
1782	HODBX93	897498	1792	169 - 186	4389		AR060: 6, AR316: 4, AR089: 3 H028: 1		
1783	HODBZ06	740759	1793	159 - 194	4390		AR174: 42, AR175: 35, AR191: 31, AR189: 30, AR270: 27, AR183: 27, AR177: 27, AR176: 26, AR190: 24, AR261: 23, AR291: 22, AR295: 21, AR182: 21, AR235: 20, AR173: 20, AR296: 19, AR218: 19, AR287: 18, AR264: 18, AR253: 18, AR181: 17, AR269: 17, AR178: 17, AR192: 17, AR297: 16, AR285: 16, AR268: 16, AR250: 16, AR288: 15, AR219: 15, AR195: 15, AR188: 15, AR089: 15, AR256: 15, AR197: 14, AR255: 14, AR210: 14, AR286: 14, AR246: 13, AR060: 13, AR258: 13, AR316: 13, AR240: 13, AR260: 13, AR236: 13, AR289: 12, AR257: 12, AR274: 12, AR299: 12, AR290: 12, AR180: 12, AR266: 11, AR254: 11, AR211: 11, AR245: 10, AR161: 10, AR163: 10, AR271: 10, AR162: 9, AR309: 9, AR179: 9, AR267: 9, AR313: 9, AR164: 9, AR166: 9, AR282: 9, AR293: 9, AR039: 9, AR193: 9, AR294: 9,	1q25.1-q31.1	134580, 145001, 145260, 150292, 208250, 600105, 600759, 600995, 601652

AR165: 9, AR262: 9, AR199: 8, AR201: 8, AR252: 8, AR232: 8, AR198: 8, AR312: 8, AR238: 8, AR263: 8, AR247: 7, AR275: 7, AR196: 7, AR096: 7, AR272: 7, AR300: 7, AR308: 7, AR204: 7, AR207: 6, AR226: 6, AR185: 6, AR203: 6, AR239: 6, AR233: 6, AR243: 6, AR311: 5, AR229: 5, AR205: 5, AR283: 5, AR231: 5, AR212: 5, AR234: 5, AR200: 5, AR228: 5, AR237: 5, AR277: 4, AR053: 4, AR215: 4, AR223: 4, AR055: 3, AR169: 3, AR061: 3, AR221: 3, AR213: 3, AR230: 3, AR227: 3, AR033: 3, AR168: 3, AR171: 3, AR104: 2, AR172: 2, AR216: 2, AR224: 2, AR217: 1, AR225: 1 S0474: 20, H0683: 7, L0748: 7, H0251: 6, L0777: 5, S0422: 4, L0764: 4, L0766: 4, L0740: 4, L0754: 4, S0418: 3, H0046: 3, H0553: 3, H0521: 3, L0779: 3, L0752: 3, L0731: 3, L0757: 3, H0422: 3, H0713: 2, H0717: 2, H0733: 2, S0476: 2, H0441: 2, H0575: 2, H0428: 2, H0494: 2, L0659: 2, L0666: 2, H0547: 2, H0519: 2, L0439: 2, L0745: 2, L0749: 2, L0736: 2, L0738:

1784	HODCA73	847421	1794	130 - 162	4391			2, L0485: 2, S0026: 2, S0384: 2, H0716: 1, S0212: 1, H0661: 1, S0356: 1, S0444: 1, S0045: 1, S0046: 1, S0132: 1, H0645: 1, H0406: 1, S0022: 1, H0431: 1, H0587: 1, H0486: 1, H0440: 1, H0013: 1, H0069: 1, H0156: 1, H0098: 1, H0581: 1, H0150: 1, H0024: 1, H0083: 1, S0025: 1, H0355: 1, H0328: 1, H0031: 1, H0124: 1, T0067: 1, H0413: 1, H0623: 1, H0560: 1, L0769: 1, L0667: 1, L0372: 1, L0767: 1, L0803: 1, L0804: 1, L0774: 1, L0775: 1, L0375: 1, L0784: 1, L0655: 1, L0657: 1, L0783: 1, L0647: 1, L5622: 1, L5623: 1, L0664: 1, H0697: 1, S0374: 1, H0724: 1, H0520: 1, H0435: 1, H0710: 1, H0518: 1, S0152: 1, L0751: 1, L0759: 1, S0031: 1, H0445: 1, S0434: 1, S0436: 1, S0192: 1, S0424: 1 and L0600: 1.
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1785	HODCV86	637035	1795	250 - 360	4392			AR060: 7, AR316: 5, AR089: 4, H0265: 4, H0271: 2, H0328: 2, H0556: 1, S0114: 1, L0539: 1, S0002: 1, H0444: 1 and L0599: 1.
1786	HODCY44	737875	1796	111 - 254	4393			H0328: 1
1787	HODDB38	580862	1797	86 - 187	4394			AR060: 4, AR316: 4, AR089: 3, H0052: 1 and H0328: 1.

1788	HODDG72	655357	1798	186 - 359	4395		H0615: 2, H0392: 1, H0013: 1, H0009: 1, H0328: 1 and T0041: 1.		
1789	HODD125	824592	1799	1540 - 1593	4396		AR060: 14, AR316: 10, AR089: 6 H0574: 3, S0003: 3, L0740: 3, L0749: 3, S0358: 2, S0444: 2, H0619: 2, H0393: 2, H0046: 2, S0214: 2, H0328: 2, S0438: 2, L0770: 2, L0769: 2, L0766: 2, L0439: 2, L0754: 2, L0752: 2, L0738: 2, L0739: 2, H0656: 1, S0282: 1, H0589: 1, S0418: 1, S0420: 1, S0360: 1, H0152: 1, H0592: 1, H0013: 1, H0156: 1, H0310: 1, H0545: 1, H0024: 1, H0252: 1, H0059: 1, H0560: 1, S0440: 1, L0520: 1, L0662: 1, L0767: 1, L0775: 1, S0374: 1, L0352: 1, S0406: 1, S0027: 1, L0748: 1, L0751: 1, L0747: 1, L0750: 1, S0260: 1, L0485: 1, L0595: 1, S0026: 1 and H0506: 1.		
1790	HODDN21	633705	1800	237 - 356	4397	Ser-18 to Thr-31, Gly-33 to Thr-38.	AR060: 7, AR316: 6, AR089: 4 H0328: 2		
1791	HODDO31	658710	1801	122 - 229	4398		H0328: 1		
1792	HODDQ06	834824	1802	834 - 920	4399	Gly-1 to Leu-6.	AR060: 5, AR316: 4, AR089: 3 L0766: 5, L0759: 4, H0038: 3, L0666: 3, L0779: 3, L0755: 3, H0266: 2, H0591: 2, H0616: 2, S0152: 2, L0758: 2, H0170: 1, T0002: 1, H0686: 1, S0212: 1, H0662: 1, S0356: 1, H0497: 1, H0486: 1, H0421: 1, H0328: 1, S0036: 1, H0059: 1, H0494: 1, H0529: 1, L0769: 1, L0761: 1, L0800: 1, L0771: 1, L0794: 1	8p21-p12	152760, 173370, 180100, 185430, 270800, 277700, 602629

1793	HODEA20	840376	1803	373 - 432	4400		1, L0653: 1, L0661: 1, H0144: 1, H0520: 1, H0659: 1, L0750: 1, S0011: 1, S0026: 1, H0665: 1 and S0398: 1		
1794	HODEM38	835100	1804	527 - 745	4401		AR089: 15, AR060: 12, AR316: 11, H0522: 2, L0438: 2, H0265: 1, H0549: 1, H0051: 1, H0615: 1, S0386: 1, T0068: 1, L0744: 1 and S0452: 1	6	
1795	HODET37	840377	1805	389 - 469	4402		AR060: 6, AR316: 5, AR089: 4, H0318: 1, H0615: 1 and H0343: 1		
1796	HOEBI94	795312	1806	558 - 632	4403		AR060: 5, AR316: 3, AR089: 2, H0615: 1, H0144: 3, H0013: 2, L0455: 2, S0126: 2, S0116: 1, S0356: 1, H0599: 1, L0471: 1, H0615: 1, H0316: 1, H0598: 1, L0649: 1, S0053: 1, H0520: 1, H0436: 1, H0478: 1, L0748: 1, L0596: 1 and L0591: 1		
1797	HOEBJ70	836143	1807	197 - 331	4404	Arg-31 to Gln-44.	AR060: 5, AR316: 5, AR089: 4, L0803: 13, L0754: 13, L0744: 11, L0731: 10, L0740: 8, L0758: 6, S0010: 4, L0769: 4, L0783: 4, L0809: 4, L0439: 4, H0052: 3, H0553: 3, L0659: 3, L0743: 3, L0757: 3, H0295: 2, H0294: 2, H0484: 2, H0661: 2, H0370: 2, H0574: 2, S0346: 2, S6028: 2, H0188: 2, L0142: 2, L0763: 2, L0764: 2, L0662: 2, L0768: 2, L0804: 2, L0776: 2, L0755: 2, L0601: 2, L0603: 2, H0584: 1, H0717: 1, H0716: 2	9	

1798	HOECB33	840378	1808	302 - 373	4405	<p>1, S0218: 1, H0657: 1, H0656: 1, L0785: 1, H0341: 1, S0110: 1, H0483: 1, H0669: 1, S0420: 1, L0005: 1, L0717: 1, H0411: 1, S0222: 1, H0431: 1, S0414: 1, H0156: 1, H0327: 1, H0545: 1, H0012: 1, S0051: 1, H0687: 1, H0615: 1, H0031: 1, H0644: 1, H0628: 1, H0181: 1, L0455: 1, H0038: 1, T0004: 1, H0100: 1, H0130: 1, L0762: 1, L0770: 1, L0638: 1, L0761: 1, L0641: 1, L0644: 1, L0773: 1, L0766: 1, L0650: 1, L0774: 1, L0651: 1, L0378: 1, L0807: 1, L0789: 1, L0666: 1, L0664: 1, L0665: 1, S0374: 1, T0068: 1, L0438: 1, S0126: 1, H0435: 1, H0658: 1, H0660: 1, S0330: 1, H0539: 1, H0521: 1, H0696: 1, L0749: 1, L0779: 1, L0777: 1, S0260: 1, H0444: 1, H0445: 1, S0434: 1, S0436: 1 and H0543: 1.</p>	2
						<p>AR060: 3, AR316: 3, AR089: 2 L0747: 6, L0777: 5, L0794: 4, L0779: 4, H0052: 3, L0790: 3, L0731: 3, L0758: 3, H0618: 2, L0369: 2, L0770: 2, L0769: 2, L0639: 2, L0542: 2, H0691: 2, L0438: 2, S0126: 2, L0748: 2, L0749: 2, S0420: 1, S0358: 1, S0222: 1, L0622: 1, S0280: 1, H0309: 1, H0545: 1, H0009: 1, H0014: 1, S0388: 1, H0328: 1, H0038: 1, H0040: 1, H0616: 1, H0412: 1, L0761: 1, L0773: 1, L0375: 1, L0809: 1, L0791: 1, S0053: 1, L0565: 1, S0380: 1, L0755: 1, L0757: 1, L0759:</p>	

1799	HOECX21	842866	1809	75 - 188	4406		1, S0031: 1 and L0698: 1. L0748: 6, L0439: 4, L0591: 4, H0599: 3, H0052: 3, H0046: 3, H0050: 3, L0455: 3, S0126: 3, L0747: 3, L0777: 3, L0471: 2, H0038: 2, L0769: 2, L0776: 2, L0666: 2, H0522: 2, L0754: 2, L0752: 2, L0599: 2, S0192: 2, H0422: 2, H0624: 1, T0002: 1, S6024: 1, H0650: 1, S0360: 1, H0586: 1, H0497: 1, H0333: 1, H0574: 1, H0013: 1, H0156: 1, T0082: 1, S0010: 1, S0049: 1, H0196: 1, H0597: 1, H0024: 1, S0362: 1, S0388: 1, T0010: 1, H0354: 1, H0510: 1, H0267: 1, S0250: 1, S0036: 1, H0090: 1, H0040: 1, H0412: 1, H0059: 1, S0438: 1, H0641: 1, S0426: 1, L0371: 1, L0770: 1, L0764: 1, L0766: 1, L0774: 1, L0775: 1, L0651: 1, L0806: 1, L0805: 1, L0653: 1, L0659: 1, L0517: 1, L0791: 1, L0665: 1, S0374: 1, L0565: 1, H0547: 1, H0684: 1, H0670: 1, H0648: 1, H0478: 1, H0631: 1, S0027: 1, L0743: 1, L0744: 1, L0740: 1, L0749: 1, L0779: 1, L0755: 1, L0731: 1, L0757: 1, L0758: 1, L0759: 1, S0031: 1, L0596: 1, L0595: 1 and H0542: 1. S0126: 1
1800	HOEDE27	825262	1810	403 - 504	4407		L0752: 7, L0755: 4, L0770: 3, L0775: 3, L0745: 3, L0777: 3, S0358: 2, H0393: 2, L0774: 2, L0743: 2, L0731: 2, S0354: 1, S0360: 1, H0574: 1, H0427: 1, H0581: 1, H0012: 1, H0014: 1, H0510: 1, L0456: 1, H0412: 1
1801	HOEXK31	844390	1811	501 - 593	4408		2

1802	HOEEZ62	638833	1812	258 - 311	4409			1, H0059; 1, H0100; 1, H0509; 1, L0772; 1, L0649; 1, L0803; 1, L0806; 1, L0776; 1, S0374; 1, S0126; 1, L0744; 1, L0748; 1, L0754; 1 and L0749; 1. AR060; 1140, AR316; 944, AR089; 742 S0126; 1		
1803	HOEF26	847422	1813	695 - 715	4410			L0803; 7, L0805; 6, S0007; 5, L0804; 5, L0439; 5, L0754; 4, L0752; 4, H0556; 3, H0574; 3, L0770; 3, L0742; 3, L0756; 3, L0771; 3, L0758; 3, L0759; 3, H0265; 2, S0026; 2, S0222; 2, H0052; 2, H0169; 2, L0794; 2, L0788; 2, H0521; 2, L0744; 2, L0745; 2, H0445; 2, L0599; 2, S0424; 2, L0600; 2, H0170; 1, H0716; 1, H0656; 1, S0400; 1, H0664; 1, H0580; 1, S0300; 1, H0357; 1, H0455; 1, H0486; 1, T0060; 1, T0114; 1, H0013; 1, S0010; 1, H0581; 1, H0596; 1, H0544; 1, H0546; 1, H0545; 1, H0046; 1, H0009; 1, L0471; 1, T0003; 1, H0024; 1, S0362; 1, H0510; 1, H0615; 1, H0428; 1, H0039; 1, H0598; 1, S0036; 1, H0090; 1, H0634; 1, H0487; 1, H0059; 1, S0038; 1, H0509; 1, S0344; 1, H0538; 1, L0769; 1, L0646; 1, L0774; 1, L0493; 1, L0517; 1, L0540; 1, L0783; 1, L0809; 1, L0529; 1, L0787; 1, L0532; 1, L0666; 1, L0663; 1, H0144; 1, H0697; 1, S0374; 1, S0126; 1, H0670; 1, H0539; 1, S0406; 1, S0392; 1, L0747; 1, L0731; 1, L0757; 1, H0667; 1, H0542; 1, L0697; 1 and; 1.		

1804	HOEFL74	561649	1814	142 - 342	4411	Arg-8 to Gly-15, Ala-32 to Thr-52.	AR060: 7, AR316: 6, AR089: 5 S0126: 3, H0619: 1 and H0622: 1.	3q21-q25	106165, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 222900, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682
1805	HOFMF63	847423	1815	86 - 625	4412	Pro-31 to Ser-39, Cys-79 to Arg-87, Pro-112 to His-119.	AR269: 9, AR183: 8, AR315: 6, AR244: 6, AR202: 6, AR281: 6, AR265: 5, AR268: 5, AR280: 5, AR205: 5, AR251: 5, AR039: 4, AR198: 4, AR089: 4, AR267: 4, AR282: 4, AR060: 4, AR184: 4, AR206: 4, AR316: 4, AR270: 3, AR295: 3, AR299: 3, AR309: 3, AR275: 3, AR033: 3, AR219: 3, AR277: 3, AR263: 3, AR274: 3, AR312: 3, AR096: 3, AR053: 3, AR294: 3, AR271: 3, AR313: 3, AR213: 3, AR177: 3, AR292: 2, AR243: 2, AR283: 2, AR218: 2, AR192: 2, AR104: 2, AR182: 2, AR310: 2, AR247: 2, AR052: 2, AR240: 2, AR298: 2, AR229: 2, AR293: 2, AR055: 2, AR248: 2, AR185: 2, AR300: 2, AR234: 2, AR233: 2, AR314: 2, AR266: 2, AR253: 2, AR291: 2, AR231: 2, AR186: 2, AR290: 2, AR237: 2, AR284: 1, AR289: 1, AR061: 1, AR256: 1, AR241: 1, AR258: 1.		

1806	HOEML65	664498	1816	341-466	4413	<p>AR175: 1, AR238: 1, AR232: 1, AR296: 1, H0521: 60, H0522: 10, L0777: 7, H0580: 5, H0090: 5, H0494: 4, L0747: 4, L0750: 4, S0132: 3, H0393: 3, H0031: 3, L0806: 3, S014: 3, L0731: 3, H0638: 2, S0360: 2, H0549: 2, T0040: 2, H0575: 2, H0318: 2, H0530: 2, H0545: 2, H0039: 2, H0040: 2, H0412: 2, H0560: 2, L0662: 2, L0768: 2, L0775: 2, H0547: 2, L0734: 2, L0758: 2, H0542: 2, H0624: 1, S0356: 1, S0358: 1, S0045: 1, S0046: 1, S0278: 1, H0431: 1, H0415: 1, H0559: 1, T0039: 1, H0013: 1, H0599: 1, H0036: 1, H0590: 1, H0581: 1, H0251: 1, H0596: 1, H0046: 1, L0471: 1, H0024: 1, H0015: 1, H0083: 1, H0644: 1, H0111: 1, H0628: 1, H0591: 1, H0551: 1, H0056: 1, H0641: 1, S0144: 1, S0344: 1, L0764: 1, L0388: 1, L0552: 1, L0774: 1, L0653: 1, L0654: 1, L0629: 1, L0663: 1, L0664: 1, H0144: 1, H0593: 1, H0689: 1, H0435: 1, S0328: 1, S0330: 1, S0152: 1, H0696: 1, H0187: 1, S0027: 1, S0206: 1, S0032: 1, L0757: 1, H0445: 1, H0595: 1, L0583: 1, S0026: 1 and H0543: 1.</p> <p>H0192: 43, S0360: 16, H0486: 13, S0126: 10, S0212: 9, L0747: 9, S0196: 9, H0144: 8, L0748: 8, S0194: 7, H0170: 6, H0328: 6, L0662: 6, H0624: 5, L0717: 5, H0013: 5, L0665: 5, L0659: 4, L0666: 4, L0731:</p>
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1807	HOEAK02	684308	1817	129 - 233	4414				4, S0242: 4, H0550: 3, H0251: 3, H0545: 3, H0050: 3, S0250: 3, H0252: 3, L0646: 3, L0794: 3, L0664: 3, L0750: 3, L0752: 3, L0759: 3, S0276: 3, H0645: 2, T0039: 2, H0316: 2, L0598: 2, L0771: 2, L0648: 2, L0653: 2, L0809: 2, L0663: 2, L0565: 2, S0330: 2, L0599: 2, H0653: 2, H0717: 1, H0295: 1, S0356: 1, S0376: 1, S0444: 1, H0619: 1, H0549: 1, H0415: 1, H0601: 1, H0592: 1, H0485: 1, H0427: 1, H0590: 1, L0105: 1, H0318: 1, H0544: 1, H0546: 1, H0024: 1, H0073: 1, H0628: 1, H0212: 1, H0090: 1, H0477: 1, L0564: 1, S0372: 1, H0646: 1, H0652: 1, S0210: 1, L0520: 1, L0762: 1, L0640: 1, L0774: 1, L0806: 1, L0805: 1, L0654: 1, S0148: 1, H0519: 1, H0593: 1, H0435: 1, H0672: 1, H0651: 1, S0328: 1, S0332: 1, S0406: 1, H0631: 1, S3012: 1, S0206: 1, S0032: 1, L0439: 1, L0749: 1, L0779: 1, L0588: 1, L0589: 1, H0668: 1 and H0667: 1.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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1809	HOEMP62	866469	1819	103 - 306	4416	Gln-26 to Thr-35.	AR060: 4, AR266: 4, AR268: 4, AR294: 4, AR309: 4, AR184: 4, AR270: 3, AR253: 3, AR312: 3, AR289: 3, AR275: 3, AR033: 3, AR292: 3, AR229: 3, AR316: 3, AR226: 3, AR206: 3, AR299: 3, AR300: 3, AR053: 3, AR231: 3, AR284: 3, AR202: 3, AR205: 3, AR295: 3, AR052: 3, AR232: 3, AR061: 3, AR296: 3, AR186: 3, AR227: 3, AR286: 3, AR285: 3, AR291: 3, AR246: 3, AR290: 3, AR096: 3, AR240: 3, AR089: 2, AR235: 2, AR293: 2, AR271: 2, AR198: 2, AR237: 2, AR298: 2, AR213: 2, AR175: 2, AR177: 2, AR218: 2, AR256: 2, AR273: 2, AR258: 2, AR185: 2, AR241: 1, AR104: 1, AR314: 1, AR259: 1, AR248: 1, AR219: 1, AR192: 1 HM415: 1		
							AR207: 38, AR264: 24, AR263: 23, AR308: 21, AR311: 21, AR212: 19, AR213: 19, AR165: 16, AR192: 16, AR309: 16, AR053: 15, AR166: 15, AR164: 15, AR162: 14, AR163: 14, AR195: 14, AR198: 14, AR312: 14,		

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AR089: 14, AR161: 13, AR242: 12, AR197: 12, AR033: 12, AR252: 11, AR245: 11, AR225: 11, AR275: 10, AR215: 10, AR271: 10, AR277: 9, AR177: 9, AR283: 9, AR295: 9, AR282: 9, AR316: 9, AR196: 9, AR246: 9, AR104: 8, AR170: 8, AR185: 8, AR221: 8, AR193: 8, AR171: 8, AR254: 8, AR060: 8, AR274: 8, AR039: 8, AR168: 8, AR055: 8, AR240: 7, AR216: 7, AR172: 7, AR232: 7, AR250: 7, AR299: 7, AR217: 7, AR201: 7, AR297: 7, AR288: 7, AR238: 7, AR272: 7, AR296: 7, AR174: 7, AR239: 7, AR096: 6, AR224: 6, AR214: 6, AR205: 6, AR291: 6, AR285: 6, AR223: 6, AR227: 6, AR286: 6, AR253: 6, AR243: 6, AR313: 5, AR235: 5, AR226: 5, AR234: 5, AR181: 5, AR289: 5, AR199: 5, AR204: 5, AR222: 5, AR293: 5, AR061: 5, AR230: 5, AR300: 5, AR191: 5, AR188: 4, AR247: 4, AR287: 4, AR200: 4, AR261: 4, AR231: 4, AR169: 4, AR229: 4, AR180: 4,

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1815	HOFOC41	712462	1825	152 - 265	4422	Phe-32 to Asn-37. H0415: 1	AR295: 5, AR253: 4, AR275: 4, AR291: 4, AR199: 4, AR104: 4, AR096: 4, AR232: 4, AR261: 4, AR240: 4, AR239: 4, AR234: 4, AR316: 4, AR234: 4, AR237: 4, AR196: 4, AR189: 4, AR252: 4, AR235: 4, AR033: 3, AR296: 3, AR226: 3, AR190: 3, AR285: 3, AR289: 3, AR055: 3, AR297: 3, AR288: 3, AR181: 3, AR223: 3, AR225: 3, AR216: 3, AR185: 3, AR290: 3, AR283: 3, AR286: 3, AR293: 3, AR229: 3, AR221: 3, AR299: 3, AR300: 3, AR217: 3, AR233: 3, AR215: 3, AR287: 3, AR277: 3, AR200: 3, AR191: 3, AR294: 3, AR175: 2, AR247: 2, AR227: 2, AR061: 2, AR188: 2, AR313: 2, AR269: 2, AR268: 2, AR173: 2, AR270: 2, AR172: 2, AR203: 2, AR210: 2, AR179: 2, AR214: 2, AR262: 2, AR183: 1, AR255: 1, AR236: 1, AR182: 1, AR178: 1, AR228: 1, AR231: 1, AR211: 1, AR267: 1, AR180: 1 H0415: 1				

1816	HOGAA41	843499	1826	640 - 1260	4423	Lys-78 to Asp-84, Pro-157 to Phe-164, Thr-199 to Glu-206.	AR089: 6, AR202: 4, AR243: 3, AR169: 3, AR199: 2, AR316: 2, AR171: 2, AR170: 2, AR168: 2, AR060: 2, AR180: 2, AR265: 2, AR223: 2, AR284: 2, AR245: 2, AR216: 2, AR312: 1, AR272: 1, AR204: 1, AR266: 1, AR248: 1, AR183: 1, AR053: 1, AR163: 1, AR282: 1, AR277: 1, AR285: 1, AR193: 1, AR257: 1, AR281: 1, AR270: 1, AR310: 1, AR274: 1, AR222: 1, AR205: 1, AR311: 1, AR271: 1 L0749: 11, L0766: 7, L0803: 5, L0740: 5, L0805: 4, L0438: 4, L0779: 4, S0192: 4, S0002: 3, L0792: 3, H0521: 3, L0755: 3, L0758: 3, S0212: 2, S0442: 2, S0354: 2, S0358: 2, H0574: 2, S0346: 2, H0050: 2, H0674: 2, H0038: 2, H0494: 2, L0770: 2, L0806: 2, H0539: 2, L0743: 2, L0748: 2, L0439: 2, L0754: 2, H0222: 1, H0685: 1, H0657: 1, S0418: 1, S0450: 1, S0356: 1, H0441: 1, H0586: 1, H0427: 1, H0042: 1, H0573: 1, H0004: 1, S0049: 1, H0457: 1, L0471: 1, S0003: 1, H0252: 1, H0032: 1, H0616: 1, H0551: 1, H0272: 1, S0352: 1, S0450: 1, S0440: 1, S0426: 1, L0769: 1, L0639: 1, L0637: 1, L0761: 1, L0764: 1, L0774: 1, L0776: 1, L0807:
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1817	HOGAB51	825278	1827	242 - 349	4424	<p>1, L0527: 1, L0518: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0374: 1, H0519: 1, H0435: 1, H0648: 1, L0356: 1, S0392: 1, S0206: 1, L0744: 1, L0750: 1, L0756: 1, L0752: 1, L0757: 1, L0759: 1, L0591: 1, L0608: 1, S0026: 1, S0242: 1, S0276: 1, H0423: 1 and S0412: 1.</p> <p>L0748: 3, L0764: 2, H0583: 1, H0538: 1, L0598: 1, L0659: 1, H0519: 1, H0435: 1 and H0710: 1.</p>		
1818	HOGAH40	790978	1828	1339 - 1416	4425	<p>L0740: 10, L0748: 9, L0747: 5, H0412: 4, H0494: 4, H0547: 4, L0744: 4, L0731: 4, H0657: 3, H0341: 3, L0163: 3, H0266: 3, H0529: 3, L0666: 3, L0352: 3, S0126: 3, H0639: 3, H0539: 3, L0752: 3, L0593: 3, H0556: 2, H0484: 2, S0420: 2, H0599: 2, H0575: 2, L0105: 2, H0014: 2, T0042: 2, L0772: 2, L0766: 2, L0775: 2, L0776: 2, L0438: 2, H0519: 2, H0435: 2, L0749: 2, L0750: 2, L0779: 2, L0757: 2, L0738: 2, L0596: 2, L0595: 2, H0136: 2, H0542: 2, H0543: 2, H0624: 1, H0170: 1, H0265: 1, S0040: 1, L0002: 1, S0116: 1, H0662: 1, H0125: 1, S0358: 1, H0431: 1, H0592: 1, H0485: 1, H0013: 1, H0156: 1, H0036: 1, H0004: 1, H0052: 1, H0263: 1, H0546: 1, H0545: 1, H0041: 1, H0050: 1, H0375: 1, S0214: 1, H0039: 1, H0032: 1, S0364: 1, H0090: 1, H0040: 1, H0551: 1, H0560: 1, H0646: 1, S0426: 1, L0770: 1, L0769: 1, L0796: 1.</p>	7	

1819	HOGAR96	823364	1829	225 - 338	4426	Ser-21 to Phe-31.	1, L0646: 1, L0641: 1, L0771: 1, L0649: 1, L0774: 1, L0375: 1, L0654: 1, L0658: 1, L0532: 1, L0663: 1, S0216: 1, H0144: 1, S0374: 1, H0670: 1, S0330: 1, S0152: 1, H0521: 1, S0027: 1, S0032: 1, L0439: 1, L0751: 1, L0755: 1, L0759: 1, S0031: 1, S0011: 1, H0665: 1 and H0423: 1.		
1820	HOGAR36	834684	1830	205 - 285	4427		H0435: 1 and H0445: 1. AR060: 2, AR316: 2 L0743: 2, L0717: 1, L0657: 1, L0659: 1 and H0435: 1.		
1821	HOGAR71	722242	1831	87 - 722	4428	Arg-106 to Lys-114, Pro-187 to Gly-194, Ala-197 to Val-211.	AR039: 40, AR205: 39, AR202: 39, AR194: 39, AR206: 37, AR246: 35, AR089: 30, AR243: 28, AR241: 27, AR198: 26, AR281: 24, AR204: 24, AR244: 24, AR060: 22, AR316: 22, AR263: 20, AR315: 20, AR273: 19, AR271: 19, AR192: 19, AR280: 18, AR265: 18, AR310: 18, AR282: 18, AR275: 15, AR283: 15, AR314: 15, AR299: 15, AR277: 15, AR295: 14, AR033: 14, AR240: 14, AR096: 14, AR213: 14, AR284: 14, AR055: 13, AR053: 13, AR309: 12, AR292: 12, AR104: 12, AR289: 12, AR266: 12, AR247: 12, AR177: 11, AR285: 11, AR312: 11, AR052: 10, AR286: 10, AR300: 10, AR274: 10, AR291: 10, AR270: 10.	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777

AR227: 10, AR232: 9, AR298: 9, AR251: 9, AR226: 8, AR268: 8, AR183: 8, AR175: 8, AR182: 8, AR313: 8, AR293: 8, AR296: 7, AR186: 7, AR234: 7, AR238: 7, AR185: 7, AR294: 7, AR231: 7, AR229: 6, AR269: 6, AR290: 6, AR061: 6, AR207: 6, AR233: 6, AR248: 6, AR258: 6, AR184: 6, AR259: 5, AR219: 5, AR253: 5, AR218: 5, AR237: 5, AR256: 4, AR179: 4, AR249: 3 S0408: 35, S0358: 15, S0442: 13, L0751: 12, L0755: 10, S0444: 9, S0440: 8, L0775: 7, L0776: 7, L0659: 7, L0596: 6, S0410: 5, L0666: 5, L0771: 4, L0768: 4, L0774: 4, L0665: 4, S0356: 3, S0376: 3, S0132: 3, H0150: 3, H0032: 3, L0372: 3, H0593: 3, S0328: 3, L0748: 3, H0661: 2, H0549: 2, H0046: 2, H0059: 2, L0373: 2, L0783: 2, S0374: 2, H0684: 2, H0648: 2, S0406: 2, S0392: 2, L0743: 2, L0750: 2, L0752: 2, S0436: 2, L0599: 2, H0506: 2, H0685: 1, H0295: 1, S0360: 1, S0476: 1, H0550: 1, H0431: 1, H0574: 1, H0486: 1, L0021: 1, H0590: 1, H0085: 1, H0204: 1, H0596: 1, H0121: 1, H0123: 1, H0012: 1, H0014: 1, H0328: 1, H0039: 1, L0194: 1, H0617: 1, H0269: 1,

								1, L0664: 1, L0665: 1, S0374: 1, H0520: 1, H0547: 1, H0435: 1, H0648: 1, L0602: 1, H0696: 1, L0779: 1, L0731: 1, L0758: 1, H0444: 1, L0591: 1, L0592: 1, L0595: 1, H0653: 1, S0276: 1, H0542: 1, H0543: 1, H0423: 1, S0412: 1 and S0424: 1.		
1823	HOGCD78	610217	1833	151 - 342	4430	Glu-35 to Glu-50.	H0435: 1	AR060: 2, AR316: 2, AR089: 2		
1824	HOGCK03	847427	1834	386 - 469	4431	Pro-2 to Gly-8, Ser-15 to Asp-21.		H0271: 11, H0179: 4, H0295: 3, H0559: 3, H0436: 3, H0661: 2, S0278: 2, S0428: 2, L0748: 2, H0542: 2, H0171: 1, H0341: 1, H0458: 1, S0444: 1, S0360: 1, H0497: 1, L0021: 1, H0575: 1, H0618: 1, H0318: 1, H0581: 1, H0545: 1, H0050: 1, H0266: 1, H0416: 1, H0687: 1, H0553: 1, H0124: 1, H0090: 1, H0634: 1, H0551: 1, H0059: 1, H0561: 1, S0144: 1, L0667: 1, L0662: 1, L0498: 1, L0774: 1, L0775: 1, L0806: 1, L0809: 1, L0666: 1, L0663: 1, L0664: 1, S0052: 1, S0216: 1, H0435: 1, H0648: 1, H0521: 1, L0731: 1, H0668: 1 and H0423: 1.		
1825	HOGCL01	846353	1835	167 - 817	4432	Pro-17 to Met-23, Ala-30 to Trp-38, Ile-49 to Trp-54, Lys-68 to Gly-74, Thr-93 to Gly-99, Met-126 to Glu-132, Gly-173 to Ser-178, Lys-205 to Tyr-214.		AR291: 21, AR283: 16, AR199: 15, AR255: 12, AR245: 12, AR287: 11, AR288: 11, AR285: 11, AR165: 11, AR296: 11, AR295: 10, AR164: 10, AR266: 10, AR297: 10, AR214: 10, AR166: 10, AR289: 9, AR161: 9, AR162: 9, AR231: 9, AR246: 9, AR163: 9.	1q21-q22	104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 159440, 159440, 159440, 174000, 179755, 182860, 182860, 182860, 186780, 191050, 191315, 230800, 230800.

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1826	HOHBB36	847428	1836	283 - 327	4433		1, S0434: 1, L0605: 1, L0361: 1, 1, S0192: 1, S0194: 1, H0543: 1, H0423: 1, S0424: 1 and H0506: 1. S0356: 4, L0748: 3, L0747: 3, S0212: 2, H0013: 2, S0214: 2, L0800: 2, L0750: 2, S0194: 2, H0638: 1, S0420: 1, S0376: 1, S0132: 1, H0393: 1, H0587: 1, T0114: 1, H0575: 1, L0563: 1, H0251: 1, H0023: 1, H0024: 1, H0355: 1, S0250: 1, S0022: 1, H0039: 1, L0455: 1, H0316: 1, H0090: 1, H0591: 1, H0551: 1, H0623: 1, H0494: 1, H0538: 1, L0369: 1, L0763: 1, L0764: 1, L0768: 1, L0794: 1, L0659: 1, L0529: 1, L0792: 1, S0126: 1, H0435: 1, S0152: 1, H0522: 1, S0146: 1, S3014: 1, L0751: 1, L0777: 1, S0011: 1, S0192: 1, S0276: 1 and S0042: 1. S0250: 2, S0116: 1, S0001: 1, H0580: 1, S0007: 1, H0549: 1, H0575: 1, S0051: 1, H0264: 1, S0386: 1, L0761: 1, H0547: 1, H0593: 1, H0521: 1, S0206: 1, L0749: 1 and S0242: 1. L0766: 6, L0747: 5, S0408: 4, L0748: 4, L0663: 3, L0758: 3, H0556: 2, H0637: 2, H0486: 2, H0581: 2, H0052: 2, H0530: 2, H0560: 2, H0641: 2, L0764: 2, L0783: 2, S0328: 2, L0751: 2, L0592: 2, H0543: 2, H0422: 2, H0650: 1, H0656: 1, H0663: 1, H0638: 1, S0418: 1, S0420: 1, S0356: 1, S0376: 1, S0132: 1, S0626: 1, S0278: 1, S0222: 1, H0586: 1, H0632: 1, H0069:	2q12-q34	100730, 118800, 123660, 129490, 135600, 157655, 167415, 176947, 186860, 201460, 205100, 262000, 601277, 601318
1827	HOHBC57	811392	1837	891 - 1046	4434	Gly-4 to Gly-10.			
1828	HOHBO66	853375	1838	338 - 403	4435				

1829	HOHBZ10	836519	1839	150 - 308	4436			1, H0427: 1, T0082: 1, H0457: 1, H0083: 1, H0510: 1, H0188: 1, L0138: 1, S0250: 1, H0644: 1, L0143: 1, H0068: 1, H0551: 1, T0041: 1, L0769: 1, L0761: 1, L0800: 1, L0644: 1, L0767: 1, L0768: 1, L0655: 1, L0659: 1, L0368: 1, H0144: 1, H0702: 1, H0547: 1, H0519: 1, H0711: 1, H0690: 1, H0435: 1, H0670: 1, S012: 1, L0755: 1, L0731: 1, S0031: 1, L0596: 1, H0653: 1 and H0506: 1.	8p21	152760, 180100, 185430, 602629
1830	HOHC71	823101	1840	333 - 449	4437			AR282: 3, AR204: 3, AR241: 3, AR244: 3, AR183: 3, AR246: 2, AR247: 2, AR053: 2, AR229: 2, AR184: 2, AR318: 2, AR206: 2, AR253: 2, AR310: 2, AR277: 2, AR227: 1, AR052: 1, AR312: 1, AR285: 1, AR267: 1, AR205: 1, AR213: 1, AR268: 1, AR096: 1, AR231: 1 H0628: 3, S0040: 1, H0024: 1, S0250: 1, H0412: 1, H0494: 1 and H0658: 1.		
1830	HOHC71	823101	1840	333 - 449	4437			L0439: 17, L0754: 9, L0748: 7, L0779: 6, L0662: 5, L0740: 5, L0731: 5, L0766: 4, S0007: 3, L0805: 3, L0666: 3, H0144: 3, L0438: 3, L0755: 3, H0170: 2, S0376: 2, H0013: 2, H0575: 2, H0036: 2, H0251: 2, H0598: 2, L0598: 2, L0642: 2, L0648: 2, L0804: 2, L0518: 2, S0374: 2, L0747: 2, L0757: 2, L0758: 2, L0605: 2, L0608: 2, L0595: 2.		

1831	HOHEB48	800629	1841	126 - 197	4438	Pro-16 to Lys-23.	2, S0026: 2, H0624: 1, L0002: 1, H0341: 1, S0212: 1, H0663: 1, S0420: 1, S0356: 1, S0354: 1, H0580: 1, H0645: 1, H0587: 1, H0497: 1, H0632: 1, H0042: 1, H0590: 1, H0596: 1, H0046: 1, H0050: 1, L0471: 1, H0014: 1, T0010: 1, S0250: 1, S0003: 1, H0428: 1, L0483: 1, H0031: 1, H0644: 1, H0212: 1, H0316: 1, H0040: 1, H0412: 1, H0561: 1, H0509: 1, S0208: 1, S0426: 1, UNKWN: 1, L0770: 1, L0761: 1, L0771: 1, L0773: 1, L0363: 1, L0768: 1, L0794: 1, L0649: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0528: 1, L0788: 1, L0789: 1, L0792: 1, L0532: 1, L0663: 1, L0665: 1, L0352: 1, H0520: 1, H0547: 1, H0518: 1, S0152: 1, H0436: 1, L0751: 1, L0749: 1, L0777: 1, L0780: 1, L0752: 1, L0759: 1, H0445: 1, H0595: 1, H0667: 1 and H0423: 1
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1832	HONAH67	821419	1842	18 - 119	4439		H0665: 2, S0438: 1, L0768: 1, L0794: 1, L0809: 1, L0789: 1, T0068: 1 and H0555: 1
1833	HOAC84	604043	1843	84 - 179	4440		H0486: 1, H0028: 1 and S0386: 1
1834	HOPBP13	825243	1844	295 - 426	4441	Ala-17 to Ala-22.	AR089: 7, AR316: 6, AR060: 6, H0288: 1

1835	HQJBG321	822863	1845	189 - 419	4442		AR060: 4, AR316: 4, AR089: 3 L0791: 2, L0750: 2, L0752: 2, S0212: 1, H0663: 1, S0358: 1, S0280: 1, H0421: 1, H0566: 1, H0030: 1, H0290: 1, H0688: 1, H0553: 1, H0644: 1, S0374: 1, S0126: 1, H0521: 1, H0555: 1, H0436: 1, H0445: 1, H0595: 1, S0436: 1, S0242: 1, S0276: 1 and H0423: 1	11q12-q13.1	106100, 133780, 147050, 259700, 259770, 600045, 601650, 601884
1836	HORB180	877660	1846	58 - 192	4443		S0007: 7, L0751: 6, L0665: 5, L0439: 5, L0745: 5, H0046: 4, H0542: 4, L0794: 3, L0749: 3, H0556: 2, S0354: 2, S0358: 2, H0599: 2, H0036: 2, H0617: 2, H0032: 2, H0551: 2, L0772: 2, L0766: 2, L0438: 2, H0519: 2, H0539: 2, H0521: 2, S014: 2, L0748: 2, L0747: 2, L0780: 2, L0731: 2, L0758: 2, L0595: 2, H0265: 1, T0002: 1, H0294: 1, S0116: 1, H0341: 1, S0418: 1, S0444: 1, H0580: 1, S0046: 1, H0549: 1, H0431: 1, T0040: 1, T0060: 1, T0114: 1, H0013: 1, H0156: 1, H0575: 1, H0318: 1, H0544: 1, H0457: 1, H0178: 1, H0014: 1, S0388: 1, H0083: 1, H0288: 1, H0290: 1, H0286: 1, H0039: 1, L0055: 1, S0036: 1, H0135: 1, H0087: 1, H0050: 1, H0059: 1, T0042: 1, S0464: 1, S0150: 1, S0144: 1, S0142: 1, L0762: 1, L0372: 1, L0645: 1, L0764: 1, L0662: 1, L0775: 1, L0651: 1, L0806: 1, L0655: 1, L0666: 1, L0663: 1, H0547: 1, S0126: 1, H0689: 1, S0380: 1, H0522: 1, S0452: 1, S0027:		

1837	HORBL77	852099	1847	25 - 219	4444	Pro-18 to Trp-26, Arg-28 to Thr-35, Lys-56 to Gly-62.	1, L0740: 1, L0756: 1, L0779: 1, L0757: 1, L0596: 1, L0592: 1 and H0543: 1. H0135: 4, S0222: 3, H0559: 3, L0794: 3, L0758: 3, H0423: 3, H0341: 2, H0292: 2, H0625: 2, S0002: 2, L0662: 2, L0789: 2, L0665: 2, H0521: 2, L0744: 2, H0556: 1, H0159: 1, H0295: 1, H0306: 1, H0449: 1, S0360: 1, H0431: 1, H0370: 1, H0455: 1, H0333: 1, H0257: 1, H0196: 1, H0052: 1, H0309: 1, H0263: 1, H0620: 1, H0024: 1, H0266: 1, H0708: 1, S0036: 1, L0564: 1, H0494: 1, H0641: 1, L0769: 1, L0796: 1, L0363: 1, L0655: 1, L0657: 1, L0783: 1, L0791: 1, L0666: 1, H0144: 1, L0438: 1, H0670: 1, H0539: 1, S0406: 1, S0028: 1, L0751: 1, L0731: 1 and L0759: 1. S0003: 1, S0142: 1, H0648: 1 and H0521: 1.			
1838	HOSBX14	597456	1848	173 - 352	4445		AR060: 5, AR316: 3, AR089: 2 S0003: 8, L0650: 2, H0170: 1, H0556: 1, S0222: 1, S0214: 1, L0766: 1, L0352: 1, H0365: 1, L0747: 1, L0777: 1 and H0423: 1.			
1839	HOSCZ41	665525	1849	188 - 340	4446	His-35 to Gln-43.				
1840	HOSEM81	846354	1850	227 - 427	4447		AR052: 12, AR194: 9, AR212: 9, AR309: 8, AR197: 8, AR165: 8, AR161: 8, AR162: 7, AR213: 7, AR163: 7, AR164: 7, AR166: 7, AR186: 7, AR244: 7, AR308: 7, AR312: 7, AR254: 6, AR202: 6,	1p36.13-p35.3	115665, 118210, 120550, 120570, 120575, 121800, 130500, 133200, 167410, 171760, 171760, 172430, 185470, 230350, 255800, 600975, 602771	

025033-09121

AR280: 3, AR251: 3, AR232: 3, AR226: 3, AR245: 3, AR175: 3, AR190: 3, AR173: 3, AR231: 2, AR243: 2, AR236: 2, AR234: 2, AR179: 2, AR210: 2, AR183: 2, AR283: 2, AR258: 2, AR227: 2, AR219: 2, AR259: 2, AR218: 2, AR315: 2, AR172: 2, AR224: 2, AR247: 2, AR216: 2, AR256: 2, AR255: 2, AR225: 2, AR252: 1, AR230: 1, AR281: 1, AR203: 1, AR228: 1, AR235: 1, AR039: 1 L0740: 8, L0748: 7, L0749: 6, L0805: 4, L0438: 4, S0250: 3, S0426: 3, L0766: 3, L0752: 3, H0657: 2, L0804: 2, L0659: 2, L0809: 2, H0521: 2, S3014: 2, L0439: 2, L0754: 2, L0779: 2, L0592: 2, L0608: 2, S0202: 1, T0002: 1, S0040: 1, S0444: 1, S0360: 1, T0008: 1, H0329: 1, H0592: 1, H0486: 1, L0021: 1, S0474: 1, H0123: 1, H0373: 1, H0266: 1, H0188: 1, S0003: 1, H0553: 1, H0090: 1, H0591: 1, H0551: 1, S0438: 1, L0772: 1, L0372: 1, L0662: 1, L0794: 1, L5564: 1, L0803: 1, L0774: 1, L0655: 1, L0527: 1, L0783: 1, L0790: 1, L0666: 1, H0658: 1, H0522: 1, H0696: 1, S0406: 1, S0037: 1, L0751: 1, L0745: 1, L0753: 1, H0445: 1, S0026: 1 and H0352: 1.
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1841	H0SE083	847083	1851	50 - 253	4448		L0599: 4, H0402: 2, H0441: 2, S0126: 2, H0394: 1, H0395: 1, S0114: 1, H0306: 1, H0497: 1, T0048: 1, H0596: 1, S0214: 1, H0031: 1, H0087: 1, T0069: 1, H0342: 1, S0344: 1, L0743: 1, L0748: 1, L0740: 1, L0754: 1, L0594: 1, L0361: 1 and H0352: 1.	
1842	H0SFR35	845994	1852	81 - 338	4449		S0474: 70, L0777: 4, H0575: 2, H0413: 2, L0771: 2, H0518: 2, L0734: 2, L0736: 2, L0779: 2, H0341: 1, H0638: 1, S0418: 1, S0354: 1, S0358: 1, S0360: 1, H0580: 1, H0497: 1, L0021: 1, H0581: 1, S0214: 1, H0038: 1, H0649: 1, S0422: 1, H0695: 1, H0529: 1, L0770: 1, L0804: 1, L0805: 1, L0530: 1, L0663: 1, H0520: 1, S0028: 1, L0750: 1, H0445: 1, S0434: 1, S0026: 1, H0423: 1 and H0422: 1.	
1843	H0UAZ32	600368	1853	214 - 261	4450		L0748: 7, L0777: 6, L0731: 6, L0766: 5, L0758: 5, L0803: 3, L0438: 3, L0439: 3, H0668: 2, H0561: 2, L0662: 2, H0648: 2, L0740: 2, L0754: 2, L0756: 2, L0779: 2, L0757: 2, L0759: 2, L0592: 2, H0556: 1, S0040: 1, S0444: 1, H0580: 1, H0208: 1, S0300: 1, H0331: 1, H0486: 1, H0013: 1, H0069: 1, S0010: 1, S0003: 1, H0634: 1, H0059: 1, H0130: 1, S0144: 1, L0763: 1, L0775: 1, L0659: 1, L0783: 1, L0809: 1, L0790: 1, L0666: 1, L0665: 1, H0547: 1, H0690: 1, H0684: 1, H0435: 1, S0206: 1, L0745: 1, L0747: 1, L0750: 1, L0780: 1, L0755: 1, L0485: 1.	

1844	HOUJBC29	872565	1854	134 - 160	4451			1 and S0026: 1. L0748: 2, L0745: 2, S0040: 1, H0637: 1, H0580: 1, H0553: 1 and L0761: 1.		
1845	HOUJBG39	601696	1855	62 - 142	4452			H0255: 2, S0040: 1 and H0251: 1.		
1846	HOUJCD12	605006	1856	514 - 639	4453			S0040: 1		
1847	HOUJDB17	603417	1857	158 - 229	4454		Lys-20 to Lys-42.	S0040: 1		
1848	HOUJDX40	603442	1858	360 - 398	4455		Glu-17 to Arg-22.	L0761: 3, S0040: 1 and H0518: 1.	12q12-12q14.3	181430, 600194, 600231, 600806, 601284, 601769, 601769, 602116
1849	HOUJEF84	862051	1859	83 - 181	4456			AR089: 3, AR316: 3, AR060: 2 L0766: 5, S0051: 3, H0624: 2, H0574: 2, H0644: 2, H0552: 2, L0655: 2, L0657: 2, H0521: 2, H0436: 2, H0423: 2, H0422: 2, S0040: 1, H0657: 1, S0282: 1, H0346: 1, S0376: 1, H0580: 1, L0717: 1, S6016: 1, S0222: 1, H0486: 1, T0114: 1, H0042: 1, S0474: 1, H0581: 1, H0552: 1, H0563: 1, H0266: 1, S0003: 1, H0063: 1, H0551: 1, H0412: 1, H0413: 1, L0475: 1, H0560: 1, S0294: 1, H0529: 1, L0763: 1, L0646: 1, L0641: 1, L0662: 1, L0803: 1, L0804: 1, L0659: 1, L0666: 1, L0663: 1, H0144: 1, H0660: 1, H0539: 1, H0696: 1, L0740: 1, L0745: 1, L0588: 1, L0592: 1, S0412: 1 and S0424: 1.	12	
1850	HOUJEI43	658713	1860	157 - 201	4457			AR244: 6, AR060: 4, AR194: 4, AR274: 4, AR293: 3, AR284: 3, AR232: 3, AR298: 3, AR289: 3, AR316: 2.		

1851	HOUIG336	862052	1861	295 - 507	4458		AR089: 2, AR226: 2, AR231: 2, AR310: 2, AR291: 2, AR286: 2, AR192: 2, AR294: 2, AR096: 2, AR052: 2, AR312: 1, AR233: 1, AR247: 1, AR295: 1, AR055: 1, AR033: 1, AR275: 1, AR183: 1, AR313: 1, AR270: 1, AR234: 1, AR299: 1 L0758: 3 and S0040: 1.		
1852	HOUHQ36	793750	1862	376 - 537	4459	Arg-46 to Arg-53.	AR060: 5, AR316: 4, AR089: 2 S0040: 1		
1853	HOUIG68	793749	1863	1509 - 1565	4460		AR060: 6, AR316: 5, L0601: 2 and S0342: 1, AR089: 3 AR060: 4 L0766: 6, L0659: 6, L0731: 5, H0529: 4, L0751: 4, L0745: 4, L0805: 3, S0152: 3, H0521: 3, H0657: 2, H0457: 2, H0551: 2, L0638: 2, L0637: 2, L0527: 2, H0144: 2, L0756: 2, L0759: 2, H0343: 2, H0542: 2, H0624: 1, H0171: 1, H0556: 1, S0342: 1, S0212: 1, H0306: 1, H0619: 1, H0351: 1, L0586: 1, H0013: 1, H0635: 1, H0156: 1, H0036: 1, H0327: 1, H0563: 1, H0373: 1, H0615: 1, H0553: 1, H0316: 1, H0591: 1, H0063: 1, H0477: 1, H0412: 1, H0100: 1, T0041: 1, H0560: 1, H0641: 1, S0422: 1, S0002: 1, L0763: 1, L0796: 1, L0646: 1, L0662: 1, L0363: 1, L0804: 1, L0655: 1, L0635: 1, L0791: 1, L0792: 1, L0664:	4q13.3	104500, 125490

1854	HOUIC92	793764	1864	343 - 528	4461	<p>1, H0520: 1, H0547: 1, H0670: 1, L0750: 1, L0780: 1, H0445: 1, L0591: 1, L0599: 1, S0026: 1, H0543: 1, H0422: 1 and S0446: 1.</p> <p>AR089: 12, AR316: 11, AR060: 10</p> <p>L0731: 11, L0747: 10, L0754: 9, L0439: 8, L0740: 8, L0748: 7, L0742: 6, L0732: 6, L0758: 6, L0809: 5, H0436: 5, L0749: 5, L0766: 4, L0789: 4, L0666: 4, H0144: 4, L0751: 4, S0444: 3, H0013: 3, H0090: 3, L0744: 3, L0750: 3, L0755: 3, L0757: 3, H0716: 2, L0103: 2, H0411: 2, H0369: 2, H0599: 2, H0575: 2, L0105: 2, H0581: 2, H0545: 2, L0456: 2, H0591: 2, H0412: 2, H0413: 2, S0440: 2, L0598: 2, L0769: 2, L0638: 2, L0645: 2, L0794: 2, L0774: 2, L0659: 2, L0528: 2, L0647: 2, L0438: 2, H0696: 2, L0759: 2, S0308: 2, L0588: 2, S0342: 1, H0713: 1, H0717: 1, S0134: 1, L0002: 1, H0656: 1, L0425: 1, S0116: 1, S0418: 1, S0358: 1, S0376: 1, S0360: 1, H0675: 1, H0637: 1, S0476: 1, L0717: 1, H0437: 1, S0222: 1, H0069: 1, S0280: 1, T0082: 1, H0004: 1, S0010: 1, S0346: 1, H0309: 1, H0050: 1, H0014: 1, S0051: 1, S6028: 1, H0266: 1, S0250: 1, H0553: 1, H0163: 1, H0038: 1, H0551: 1, H0264: 1, H0623: 1, T0042: 1, S0438: 1, L0520: 1, L0770: 1, L0637: 1, L0761: 1, L0646: 1, L0773: 1, L0662: 1,</p>
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1855	HOVAD93	821333	1865	114 - 200	4462	Asn-17 to Ser-25.	AR089: 9, AR316: 7, AR060: 6 HO428: 1	L0649: 1, L0804: 1, L0806: 1, L0805: 1, L0776: 1, L0606: 1, L0656: 1, L0352: 1, H0539: 1, S0378: 1, H0710: 1, H0521: 1, H0555: 1, S0344: 1, S0028: 1, L0745: 1, L0756: 1, L0777: 1, S0434: 1, S0436: 1, L0599: 1, S0194: 1, S0276: 1 and HO423: 1.		
1856	HOVAE10	604932	1866	228 - 308	4463		L0599: 2, S0358: 1, H0587: 1, H0251: 1, H0428: 1, L0770: 1, L0794: 1, L0806: 1 and L0779: 1			
1857	HOVAE36	707399	1867	49 - 87	4464		HO428: 2			
1858	HOVAE82	826447	1868	154 - 267	4465	Arg-16 to Lys-21.	HO428: 1 and S0344: 1.			
1859	HOVAJ68	741098	1869	129 - 215	4466		HO428: 1			
1860	HOVAN46	892162	1870	220 - 270	4467		HO428: 1 and H0135: 1.			
1861	HOVBB19	843768	1871	379 - 477	4468		HO428: 2, H0659: 1 and S0242: 1.			
1862	HOVBD31	596902	1872	149 - 238	4469		L0439: 7, L0794: 4, H0659: 4, H0670: 3, L0438: 2, H0170: 1, S0624: 1, H0662: 1, L0005: 1, H0575: 1, H0194: 1, H0545: 1, S0050: 1, T0010: 1, S6028: 1, H0428: 1, H0509: 1, L0768: 1, L0805: 1, L0527: 1, L0759: 1 and L0684: 1.			
1863	HOVBE81	862054	1873	172 - 270	4470		HO428: 1		6q21	120110, 121014, 601666, 602772
1864	HOVB116	581097	1874	269 - 544	4471	Pro-10 to Gly-18, Pro-53 to Asp-58.	HO265: 27, L0751: 24, HO617: 15, H0556: 13, H0135: 13, H0046: 12, L0439: 10, H0521: 9, H0253: 8, L0740: 8, H0124: 7, H0087: 7, L0747: 7, S0420: 6, S0442: 6, H0052: 6, H0620: 6, H0494: 6, L0663: 6.		5	

090700Z
= 061200Z

						H0305: 1, H0449: 1, L0005: 1, S0376: 1, S0444: 1, S0045: 1, S0132: 1, H0411: 1, H0261: 1, H0550: 1, H0441: 1, H0587: 1, H0497: 1, H0642: 1, H0486: 1, L0021: 1, H0706: 1, S0182: 1, H0421: 1, S0049: 1, H0327: 1, H0150: 1, H0570: 1, H0051: 1, S0388: 1, H0188: 1, H0687: 1, H0292: 1, H0284: 1, H0039: 1, H0622: 1, H0182: 1, H0606: 1, S0366: 1, H0163: 1, H0616: 1, H0488: 1, H0413: 1, H0059: 1, L0351: 1, L0564: 1, H0202: 1, T0042: 1, H0280: 1, H0334: 1, H0625: 1, S0448: 1, S0440: 1, H0646: 1, S0422: 1, L0369: 1, L5575: 1, L0641: 1, L0643: 1, L0645: 1, L0771: 1, L0626: 1, L0363: 1, L0650: 1, L0375: 1, L0651: 1, L0654: 1, L0776: 1, L0655: 1, L0636: 1, L0782: 1, L0790: 1, H0697: 1, H0723: 1, L0438: 1, H0519: 1, H0670: 1, S0380: 1, S0350: 1, H0134: 1, S0404: 1, H0555: 1, H0631: 1, S0037: 1, S0032: 1, L0745: 1, L0750: 1, L0752: 1, L0731: 1, L0759: 1, H0444: 1, H0707: 1, S0436: 1, L0584: 1, L0597: 1, L0589: 1, L0608: 1, S0026: 1, H0216: 1, H0422: 1 and H0506: 1.
1865	HOVBS68	596823	1875	20 - 142	4472	L0779: 2, H0445: 2, H0392: 1, H0373: 1, H0428: 1, H0538: 1, L0761: 1, L0518: 1, L0519: 1 and L0780: 1.
1866	HOVC73	610041	1876	126 - 260	4473	S0114: 1 and H0428: 1.
1867	HOVCf30	638142	1877	169 - 234	4474	L0803: 2, H0581: 1, H0428: 1, H0625: 1, S0422: 1, L0769:

1868	HOVC171	846487	1878	147 - 287	4475	Ser-33 to Cys-43.	1, L0771: 1, L0791: 1, H0684: 1, H0659: 1, H0522: 1, L0748: 1 and L0740: 1. AR060: 543, AR116: 498, AR089: 454 H0428: 1	
1869	HOVCN53	604944	1879	128 - 238	4476	Met-1 to Trp-7.		
1870	HOVC053	564632	1880	65 - 208	4477	Ser-41 to Glu-47.	H0428: 1 and L0372: 1. H0428: 1	
1871	HPASP94	813610	1881	41 - 154	4478	Glu-17 to Arg-24.	AR235: 5, AR266: 5, AR176: 4, AR271: 4, AR196: 4, AR162: 4, AR163: 4, AR161: 4, AR212: 4, AR240: 3, AR193: 3, AR205: 3, AR096: 3, AR254: 3, AR165: 3, AR245: 3, AR164: 3, AR291: 3, AR197: 3, AR166: 3, AR270: 3, AR264: 3, AR170: 3, AR288: 3, AR183: 3, AR201: 3, AR213: 3, AR199: 3, AR272: 3, AR312: 3, AR263: 3, AR255: 3, AR309: 3, AR195: 3, AR269: 3, AR089: 3, AR215: 3, AR053: 3, AR203: 3, AR168: 3, AR229: 3, AR297: 3, AR188: 3, AR228: 3, AR175: 3, AR236: 3, AR257: 2, AR294: 2, AR174: 2, AR181: 2, AR296: 2, AR191: 2, AR285: 2, AR293: 2, AR262: 2, AR182: 2, AR287: 2, AR268: 2, AR250: 2, AR185: 2, AR247: 2, AR295: 2.	

1872	HPBCG26	844660	1882	74 - 169	4479	AR177: 2, AR316: 2, AR233: 2, AR179: 2, AR033: 2, AR234: 2, AR039: 2, AR200: 2, AR289: 2, AR061: 2, AR173: 2, AR282: 2, AR299: 2, AR313: 2, AR214: 2, AR300: 2, AR237: 2, AR290: 2, AR060: 2, AR189: 2, AR178: 2, AR239: 2, AR277: 2, AR207: 2, AR198: 2, AR231: 2, AR261: 2, AR227: 2, AR104: 2, AR055: 2, AR171: 2, AR222: 2, AR190: 2, AR258: 2, AR260: 2, AR224: 2, AR218: 2, AR275: 2, AR232: 2, AR267: 1, AR230: 1, AR243: 1, AR219: 1, AR286: 1, AR226: 1, AR238: 1, AR283: 1 L0764: 4, L0439: 4, H0424: 3, L0639: 3, H0150: 2, H0617: 2, L0666: 2, L0736: 2, L0779: 2, L0757: 2, H0543: 2, S0222: 1, H0492: 1, H0270: 1, H0036: 1, H0620: 1, H0023: 1, H0032: 1, H0212: 1, L0638: 1, L0761: 1, L0646: 1, L0662: 1, L0766: 1, L0655: 1, L0783: 1, L0809: 1, L0664: 1, L0438: 1, H0682: 1, H0436: 1, L0747: 1, L0777: 1, L0758: 1 and H0423: 1. T0039: 3, H0519: 3, S0040: 2, S0046: 2, H0373: 2, H0039: 2, S0210: 2, L0740: 2, H0484: 1, S0356: 1, S0152: 1, H0393:
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1873	HPBCT11	825226	1883	149 - 265	4480				1, H0175: 1, H0362: 1, H0486: 1, H0046: 1, H0355: 1, H0375: 1, S0250: 1, T0006: 1, H0553: 1, S0002: 1, H0144: 1, S0152: 1, H0521: 1, H0522: 1, H0555: 1, S0027: 1, L0743: 1, L0752: 1, L0757: 1, L0588: 1 and S0011: 1.	4q13.3-q21.3	104500, 125490, 163800, 173910, 252500, 252500
1874	HPBDE33	853660	1884	257 - 1186	4481				T0006: 1 and H0038: 1. AR274: 224, AR273: 192, AR218: 144, AR271: 116, AR251: 114, AR240: 101, AR243: 101, AR313: 96, AR275: 95, AR309: 95, AR219: 95, AR263: 94, AR096: 90, AR310: 86, AR175: 84, AR312: 77, AR053: 76, AR265: 73, AR213: 71, AR247: 69, AR256: 64, AR052: 61, AR183: 61, AR266: 60, AR290: 58, AR177: 58, AR179: 57, AR244: 54, AR198: 54, AR089: 54, AR104: 52, AR316: 52, AR185: 52, AR282: 51, AR248: 51, AR292: 50, AR253: 50, AR241: 50, AR186: 49, AR285: 47, AR205: 47, AR299: 46, AR192: 46, AR267: 44, AR060: 44, AR249: 44, AR293: 42, AR291: 41, AR295: 40, AR284: 39, AR039: 38, AR289: 37, AR268: 37, AR259: 35, AR300: 35, AR182: 35, AR286: 35, AR184: 34, AR283: 34, AR296: 31, AR269: 31, AR294: 30,		

1875	HPBDE33	897372	1885	1308 - 1385	4482	<p>AR314: 30, AR206: 30, AR270: 30, AR258: 27, AR232: 27, AR055: 26, AR280: 25, AR226: 25, AR061: 25, AR231: 25, AR298: 25, AR237: 24, AR246: 23, AR277: 23, AR033: 22, AR238: 22, AR194: 21, AR229: 20, AR234: 20, AR315: 19, AR281: 17, AR204: 17, AR233: 14, AR202: 12, AR227: 12 S0358: 4, S0410: 4, L0759: 4, S0444: 3, H0599: 3, L0803: 3, L0774: 3, H0521: 3, S0354: 2, S0408: 2, H0674: 2, L0761: 2, L0764: 2, L0659: 2, L0809: 2, L0789: 2, L0438: 2, H0522: 2, S0434: 2, H0717: 1, H0638: 1, S0376: 1, H0580: 1, H0485: 1, H0013: 1, S0003: 1, T0006: 1, S0386: 1, S0440: 1, L0800: 1, L0662: 1, L0783: 1, L0790: 1, S0330: 1, H0696: 1, L0779: 1, L0777: 1, L0755: 1 and L0758: 1.</p>	4q13.3-q21.3	104500, 125490, 163890, 173910, 252500, 252500
						<p>AR274: 224, AR273: 192, AR218: 144, AR271: 116, AR251: 114, AR240: 101, AR243: 101, AR313: 96, AR275: 95, AR309: 95, AR219: 95, AR263: 94, AR096: 90, AR310: 86, AR175: 84, AR312: 77, AR053: 76, AR265: 73, AR213: 71, AR247: 69, AR256: 64, AR052: 61, AR183: 61, AR266: 60, AR290: 58, AR177: 58,</p>		

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ARI79: 57, AR244: 54, ARI98: 54, AR089: 54, ARI04: 52, AR316: 52, ARI85: 52, AR282: 51, AR248: 51, AR292: 50, AR233: 50, AR241: 50, ARI86: 49, AR285: 47, AR205: 47, AR299: 46, ARI92: 46, AR267: 44, AR060: 44, AR249: 44, AR293: 42, AR291: 41, AR295: 40, AR284: 39, AR039: 38, AR289: 37, AR268: 37, AR259: 35, AR300: 35, AR182: 35, AR286: 35, AR184: 34, AR283: 34, AR296: 31, AR269: 31, AR294: 30, AR314: 30, AR206: 30, AR270: 30, AR238: 27, AR232: 27, AR055: 26, AR280: 25, AR226: 25, AR061: 25, AR231: 25, AR298: 25, AR237: 24, AR246: 23, AR277: 23, AR033: 22, AR238: 22, AR194: 21, AR229: 20, AR234: 20, AR315: 19, AR281: 17, AR204: 17, AR233: 14, AR202: 12, AR227: 12 S0358: 4, S0410: 4, L0759: 4, S0444: 3, H0599: 3, L0803: 3, L0774: 3, H0521: 3, S0354: 2, S0408: 2, H0674: 2, L0761: 2, L0764: 2, L0659: 2, L0809: 2, L0789: 2, L0438: 2, H0522: 2, S0434: 2, H0717: 1, H0638: 1, S0376: 1, H0580: 1, H0485: 1, H0013: 1, S0003: 1, T0006:

1876	HPBDF31	581082	1886	149 - 238	4483		<p>1, S0386: 1, S0440: 1, L0800: 1, L0662: 1, L0783: 1, L0790: 1, S0330: 1, H0696: 1, L0779: 1, L0771: 1, L0755: 1 and L0758: 1.</p> <p>L0748: 10, L0794: 4, L0740: 4, L0766: 3, L0754: 3, H0657: 2, S0007: 2, H0070: 2, L0764: 2, L0665: 2, L0753: 2, L0731: 2, L0758: 2, H0634: 1, H0556: 1, H0600: 1, H0587: 1, H0643: 1, L0623: 1, H0013: 1, H0098: 1, S0010: 1, H0318: 1, H0374: 1, H0052: 1, H0251: 1, H0687: 1, H0328: 1, T0006: 1, L0456: 1, H0040: 1, H0264: 1, H0413: 1, L0065: 1, H0529: 1, L0770: 1, L0765: 1, L0768: 1, L0803: 1, L0775: 1, L0375: 1, L0789: 1, L0666: 1, S0374: 1, H0520: 1, H0682: 1, H0658: 1, S0330: 1, H0539: 1, H0576: 1, L0750: 1, L0777: 1, L0752: 1, L0759: 1, L0591: 1, L0594: 1, L0595: 1 and H0352: 1.</p>	15q24	118485, 231680, 272800, 272800, 272800, 276700, 602685
1877	HPCAG17	757836	1887	214 - 309	4484		<p>H0421: 1, H0522: 1 and S0146: 1.</p>		
1878	HPCAG17	863943	1888	81 - 176	4485		<p>H0421: 1, H0522: 1 and S0146: 1.</p>		
1879	HPCAM02	877661	1889	265 - 375	4486		<p>AR202: 5, AR246: 5, AR186: 5, AR204: 4, AR312: 4, AR060: 4, AR182: 4, AR055: 3, AR206: 3, AR310: 3, AR061: 3, AR309: 3, AR052: 3, AR283: 3, AR299: 3, AR282: 3, AR289: 3, AR298: 3, AR296: 3, AR033: 3, AR293: 3, AR053: 3.</p>		

1880	HPDDQ17	598716	1890	251 - 346	4487			AR089: 3, AR295: 2, AR277: 2, AR294: 2, AR263: 2, AR213: 2, AR286: 2, AR247: 2, AR243: 2, AR237: 2, AR316: 2, AR185: 2, AR253: 2, AR290: 2, AR238: 2, AR240: 2, AR205: 2, AR300: 2, AR313: 2, AR096: 2, AR268: 2, AR267: 2, AR292: 2, AR269: 2, AR284: 2, AR233: 2, AR227: 2, AR234: 2, AR259: 2, AR275: 1, AR226: 1, AR291: 1, AR231: 1, AR198: 1, AR258: 1, AR194: 1, AR285: 1, AR256: 1, AR183: 1, AR232: 1, AR249: 1, AR192: 1, AR218: 1, AR244: 1, AR219: 1, AR104: 1, S0134: 1, S0146: 1 and S0192: 1		
								L0439: 2, H0394: 1, T0023: 1 and L0438: 1.		
1881	HPDDQ28	566793	1891	166 - 384	4488	Asp-19 to Gly-24, Ser-52 to Thr-57.		T0023: 1 and S3014: 1.		
1882	HPDDT14	580867	1892	173 - 349	4489	Lys-53 to Lys-58.		L0754: 7, L0731: 4, S0046: 2, H0266: 2, L0439: 2, L008: 2, L0362: 2, H0431: 1, T0040: 1, H0098: 1, T0110: 1, H0015: 1, T0010: 1, H0375: 1, T0023: 1, H0169: 1, H0090: 1, T0067: 1, S0152: 1, L0748: 1, L0740: 1, L0756: 1, L0593: 1 and S0026: 1.		
1883	HPEAA65	599378	1893	25 - 174	4490	Ile-28 to Ser-35.		H0556: 2, H0632: 1, H0165: 1 and L0748: 1.		

1884	HPEAG24	637097	1894	207 - 314	4491	Ser-15 to Ser-27.	AR089: 13, AR316: 13, AR060: 12 S0360: 3, L0764: 3, H0560: 2, L0766: 2, L0527: 2, L0663: 2, H0519: 2, H0696: 2, S0406: 2, L0740: 2, L0759: 2, S0011: 2, H0170: 1, H0556: 1, H0686: 1, S0342: 1, H0716: 1, H0663: 1, S0358: 1, S0408: 1, S0132: 1, L0717: 1, S0222: 1, H0592: 1, S0010: 1, H0318: 1, H0421: 1, S0049: 1, H0545: 1, L0471: 1, H0015: 1, S0388: 1, H0687: 1, S0003: 1, S0022: 1, H0328: 1, H0688: 1, H0165: 1, H0674: 1, H0591: 1, H0413: 1, L0065: 1, H0509: 1, H0647: 1, S0422: 1, S0002: 1, L0646: 1, L0521: 1, L0774: 1, L0775: 1, L0776: 1, L0655: 1, L0807: 1, L0656: 1, L0783: 1, L0664: 1, H0520: 1, H0682: 1, H0648: 1, H0539: 1, S0380: 1, H0521: 1, L0741: 1, L0439: 1, L0754: 1, L0752: 1, L0593: 1, L0601: 1, H0668: 1, S0026: 1 and S0424: 1.		
1885	HPEBA84	753957	1895	533 - 643	4492		AR060: 4, AR316: 3, AR089: 3 L0591: 2, S0420: 1, H0057: 1, H0166: 1, L0648: 1, L0518: 1, L0809: 1, L0519: 1, L0754: 1 and L0599: 1.		
1886	HPEBF91	638144	1896	189 - 293	4493		L0752: 7, L0439: 5, L0438: 2, S0356: 1, H0013: 1, H0042: 1, T0023: 1, H0166: 1, H0591: 1, L0803: 1, L0515: 1, L0659: 1, L0647: 1, L0789: 1, H0539: 1, L0731: 1 and H0352: 1.		
1887	HPEBI09	605010	1897	53 - 109	4494		AR060: 7, AR316: 5, AR089: 4		

1888	HPFCJ75	774564	1898	1 - 33	4495		AR060: 8, AR316: 7, AR089: 7 L0805: 5, L0750: 3, L0777: 3, L0803: 2, L0804: 2, H0520: 2, H0547: 2, L0744: 2, L0779: 2, L0752: 2, L0731: 2, S0282: 1, S0360: 1, H0411: 1, H0042: 1, H0581: 1, H0251: 1, H0596: 1, H0123: 1, H0620: 1, H0014: 1, H0031: 1, H0328: 1, H0553: 1, H0169: 1, S0422: 1, L0776: 1, L0791: 1, H0519: 1, H0521: 1, H0522: 1, L0356: 1, L0439: 1, L0756: 1, L0780: 1, L0753: 1 and L0759: 1.		H0331: 1 and H0166: 1.
1889	HPFCJ75	581083	1899	78 - 173	4496		S0050: 1, H0271: 1, H0169: 1 and S0052: 1.		
1890	HPFDB66	829318	1900	973 - 1002	4497		AR089: 34, AR316: 27, AR060: 22 L0758: 7, L0748: 4, L0731: 4, L0604: 4, H0728: 3, H0486: 3, H0457: 3, H0169: 3, H0038: 3, H0616: 3, L0659: 3, H0543: 3, S0360: 2, L0655: 2, L0809: 2, L0666: 2, H0725: 2, S0328: 2, S0027: 2, L0754: 2, L0747: 2, L0759: 2, S0434: 2, H0542: 2, T0002: 1, H0713: 1, H0716: 1, L0785: 1, H0484: 1, S0420: 1, H0729: 1, H0574: 1, S0051: 1, H0688: 1, H0428: 1, H0708: 1, S0366: 1, H0090: 1, H0413: 1, S0440: 1, L0369: 1, L0763: 1, L0794: 1, L0766: 1, L0806: 1, L0653: 1, L0776: 1, L0657: 1, L0663: 1, H0684: 1, S0013: 1, H0696: 1, S0406: 1, L0749: 1, L0757: 1, H0665: 1, S0196: 1 and S0398: 1.		10cen-q26.11

1891	HPFDD28	824856	1901	391 - 402	4498		Met-17 to Gln-24.	AR089: 33, AR316: 23, AR060: 14 H0169: 1 and L0779: 1.		
1892	HPFDI47	638164	1902	174 - 254	4499			H0169: 2 and H0231: 1.		
1893	HPFIA35	747704	1903	140 - 160	4500			S0150: 1		
1894	HPFAK27	852658	1904	1088 - 1165	4501		Pro-20 to Ala-25.	AR089: 15, AR316: 11, AR060: 8 H0013: 7, L0754: 6, L0662: 5, H0144: 5, L0758: 4, L0759: 4, H0170: 3, H0556: 3, S0358: 3, H0244: 3, H0052: 3, S0440: 3, L0761: 3, L0803: 3, L0659: 3, L0731: 3, H0657: 2, H0663: 2, H0036: 2, H0032: 2, H0068: 2, H0163: 2, H0616: 2, L0772: 2, L0768: 2, L0794: 2, L0766: 2, L0789: 2, L0666: 2, H0670: 2, S0028: 2, L0730: 2, L0608: 2, H0624: 1, H0265: 1, H0713: 1, H0662: 1, H0638: 1, S0444: 1, S0046: 1, H0619: 1, H0645: 1, S0222: 1, H0257: 1, H0486: 1, H0618: 1, T0048: 1, H0596: 1, H0046: 1, H0050: 1, H0578: 1, H0014: 1, H0275: 1, H0286: 1, H0328: 1, H0031: 1, H0674: 1, H0038: 1, H0059: 1, H0560: 1, S0150: 1, L0369: 1, L0646: 1, L0764: 1, L0765: 1, L0773: 1, L0632: 1, L0776: 1, L0657: 1, L0656: 1, H0702: 1, S0374: 1, S0310: 1, H0520: 1, H0689: 1, H0659: 1, H0539: 1, S0378: 1, S0168: 1, S0406: 1, H0478: 1, L0744: 1, L0740: 1, L0749: 1, L0756: 1, S0436: 1, L0591: 1, S0026: 1, H0665: 1, H0543: 1, H0423: 1 and S0462: 1.	1p36.13-q24.1	115665, 120550, 120570, 120575, 130500, 133200, 167410, 172430, 600309, 600975
1895	HPFAL55	847429	1905	286 - 489	4502		Tyr-33 to Thr-39, Ser-46 to Cys-53.	AR060: 5, AR316: 4, AR089: 2		

1896	HPIAT18	877663	1906	74 - 190	4503	S0444: 3, H0271: 3, L0764: 3, L0766: 3, L0748: 3, L0759: 3, S0408: 2, S0222: 2, H0370: 2, H0038: 2, L0761: 2, L0771: 2, L0662: 2, L0806: 2, L0805: 2, L0809: 2, S0152: 2, L0743: 2, L0740: 2, L0749: 2, L0750: 2, L0755: 2, L0758: 2, H0543: 2, S0420: 1, S0376: 1, H0645: 1, H0549: 1, H0550: 1, H0333: 1, H0331: 1, H0486: 1, H0618: 1, S0010: 1, H0318: 1, H0309: 1, H0544: 1, H0009: 1, H0416: 1, H0033: 1, H0401: 1, S0366: 1, H0040: 1, H0087: 1, H0551: 1, S0016: 1, S0352: 1, S0150: 1, S0422: 1, L0769: 1, L0646: 1, L0794: 1, L0804: 1, L0775: 1, L0659: 1, L0789: 1, L0663: 1, H0539: 1, H0436: 1, L0754: 1, L0731: 1, S0436: 1 and S0460: 1.	AR282: 4, AR252: 3, AR268: 3, AR169: 3, AR172: 2, AR221: 2, AR171: 2, AR168: 2, AR309: 2, AR217: 2, AR271: 2, AR039: 2, AR224: 2, AR225: 2, AR254: 2, AR215: 2, AR166: 2, AR242: 2, AR246: 1, AR178: 1, AR096: 1, AR222: 1, AR223: 1, AR089: 1, AR257: 1, AR165: 1, AR176: 1, AR311: 1, AR210: 1, AR164: 1, L0659: 7, L0777: 7, S0358: 6, H0622: 6, H0486: 5, S0360: 4, L0662: 4, H0013: 3, H0144:
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1897	HP/AZ52	801924	1907	4504	Thr-4 to His-10	3, S0328: 3, L0751: 3, L0731: 3, H0624: 2, H0619: 2, H0328: 2, L0520: 2, L0764: 2, L0794: 2, L0747: 2, S0116: 1, S0356: 1, S0376: 1, H0431: 1, H0600: 1, H0632: 1, H0244: 1, H0599: 1, H0123: 1, H0050: 1, H0051: 1, S0250: 1, H0615: 1, H0688: 1, H0039: 1, H0163: 1, H0090: 1, H0591: 1, H0040: 1, H0102: 1, H0647: 1, H0646: 1, L0640: 1, L0763: 1, L0768: 1, L0649: 1, L0806: 1, L0793: 1, L0666: 1, H0690: 1, H0684: 1, H0658: 1, H0648: 1, L0779: 1, L0780: 1, L0759: 1 and S001: 1.	105600, 109700, 114240, 151670, 160777, 600839, 601780, 602099
1898	HP/BA07	886191	1908	4505	Asn-54 to Thr-61.	AR0130: 1 AR0136: 4, AR089: 4, AR060: 4 L0754: 8, L0766: 6, S0022: 5, H0013: 3, H0641: 3, S0422: 3, L0439: 3, L0777: 3, H0050: 2, L0794: 2, L0649: 2, L0803: 2, L0438: 2, L0749: 2, L0779: 2, L0594: 2, L0362: 2, H0341: 1, H0638: 1, H0486: 1, H0635: 1, H0318: 1, H0581: 1, L0109: 1, H0014: 1, H0051: 1, H0594: 1, H0687: 1, H0328: 1, H0628: 1, H0032: 1, S0036: 1, S0150: 1, L0369: 1, L0640: 1, L0770: 1, L0662: 1, L0382: 1, L0790: 1, L0666: 1, L0665: 1, S0053: 1, L0565: 1, H0547: 1, H0436: 1, L0748: 1, L0740: 1, L0756: 1, H0343: 1 and L0591: 1.	15q21
1899	HP/BA24	840379	1909	4506	Ser-6 to Gly-11.	AR060: 5, AR316: 5, AR089: 5 H0341: 1, S0354: 1, T0040: 1, H0036: 1, H0266: 1, H0264:	

1900	HP/B140	588944	1910	184 - 447	4507	Phs-55 to Gln-60, Val-78 to Asn-87.	1, H0268: 1, T0041: 1, S0466: 1, S0150: 1 and H0652: 1. AR060: 7, AR316: 7, AR089: 7 L0748: 4, L0777: 3, L0758: 3, L0809: 2, H0670: 2, L0601: 2, S0358: 1, S0132: 1, H0411: 1, S0222: 1, S6014: 1, L0021: 1, H0581: 1, H0251: 1, H0163: 1, H0090: 1, H0372: 1, H0488: 1, S0150: 1, S0144: 1, L0769: 1, L0803: 1, L0665: 1, L0438: 1, L0439: 1, L0608: 1, L0366: 1 and H0667: 1. S0150: 1	11q23.2	261640, 602574, 602574
1901	HP/BT19	843567	1911	340 - 435	4508		S0152: 1		
1902	HP/JAA82	835506	1912	158 - 196	4509		AR162: 23, AR161: 22, AR163: 22, AR165: 20, AR196: 19, AR164: 19, AR166: 18, AR089: 13, AR299: 13, AR203: 12, AR178: 12, AR229: 12, AR313: 11, AR109: 10, AR191: 10, AR096: 9, AR270: 9, AR182: 9, AR197: 9, AR181: 9, AR175: 9, AR296: 9, AR180: 9, AR247: 9, AR060: 9, AR173: 9, AR272: 9, AR226: 9, AR195: 8, AR295: 8, AR300: 8, AR183: 8, AR269: 8, AR188: 8, AR235: 8, AR240: 8, AR238: 8, AR253: 8, AR176: 8, AR053: 8, AR174: 7, AR193: 7, AR275: 7, AR263: 7, AR192: 7, AR177: 7, AR312: 7, AR189: 7.		
1903	HP/JAB75	841653	1913	153 - 239	4510				

1904	HPI/AN76	826185	1914	275 - 331	4511	AR316: 7, AR268: 7, AR257: 7, AR200: 7, AR264: 7, AR274: 7, AR261: 7, AR231: 6, AR236: 6, AR258: 6, AR267: 6, AR228: 6, AR254: 6, AR225: 6, AR297: 6, AR213: 6, AR291: 6, AR185: 6, AR233: 6, AR212: 6, AR234: 6, AR308: 6, AR190: 6, AR104: 6, AR179: 6, AR227: 6, AR239: 6, AR266: 5, AR204: 5, AR285: 5, AR262: 5, AR290: 5, AR286: 5, AR237: 5, AR309: 5, AR282: 5, AR295: 5, AR288: 5, AR201: 5, AR294: 5, AR277: 5, AR271: 4, AR287: 4, AR289: 4, AR246: 4, AR255: 4, AR033: 4, AR232: 4, AR230: 4, AR243: 4, AR219: 4, AR250: 3, AR311: 3, AR061: 3, AR168: 3, AR242: 3, AR260: 3, AR218: 3, AR211: 3, AR283: 3, AR210: 2, AR214: 2, AR172: 2, AR059: 2, AR055: 2, AR171: 2, AR170: 2, AR222: 2, AR245: 2, AR256: 2, AR223: 1, AR221: 1 S0300: 1, H0413: 1, S0152: 1 and H0543: 1	2q21-q22	133510, 133510, 163520, 223000,
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1905	HP/AN76	854893	1915	275 - 331	4512		4, L0362: 4, L0770: 3, H0658: 3, L0717: 2, S0222: 2, H0620: 2, L0659: 2, H0659: 2, H0648: 2, L0751: 2, L0786: 2, L0594: 2, H0171: 1, S0046: 1, H0441: 1, H0431: 1, H0156: 1, H0581: 1, H0194: 1, T0010: 1, S0628: 1, H0615: 1, H0413: 1, L0369: 1, L0763: 1, L0638: 1, L0796: 1, L0804: 1, L0375: 1, L0527: 1, L0657: 1, L0493: 1, L0666: 1, L0663: 1, H0144: 1, H0520: 1, H0689: 1, H0682: 1, H0683: 1, H0684: 1, H0539: 1, S0152: 1, L0612: 1, L0779: 1, L0777: 1, L0758: 1, L0759: 1, L0588: 1, L0592: 1 and L0601: 1.	2q21-q22	133510, 133510, 165320, 223000, 223000, 256030
1906	HP/AD94	826719	1916	55 - 126	4513		L0439: 12, L0769: 9, H0670: 6, H0547: 5, L0794: 4, L0650: 4, L0362: 4, L0770: 3, H0658: 3, L0717: 2, S0222: 2, H0620: 2, L0659: 2, H0659: 2, H0648: 2, L0751: 2, L0786: 2, L0594: 2, H0171: 1, S0046: 1, H0441: 1, H0431: 1, H0156: 1, H0581: 1, H0194: 1, T0010: 1, S0628: 1, H0615: 1, H0413: 1, L0369: 1, L0763: 1, L0638: 1, L0796: 1, L0804: 1, L0375: 1, L0527: 1, L0657: 1, L0493: 1, L0666: 1, L0663: 1, H0144: 1, H0520: 1, H0689: 1, H0682: 1, H0683: 1, H0684: 1, H0539: 1, S0152: 1, L0612: 1, L0779: 1, L0777: 1, L0758: 1, L0759: 1, L0588: 1, L0592: 1 and L0601: 1.		
1907	HP/JAW78	812766	1917	100 - 303	4514		H0305: 1 and S0152: 1, S0216: 1, S0152: 1 and S0242: 1.		
1908	HP/BS16	608307	1918	31 - 369	4515	Asm-41 to Asp-46,	AR313: 27, AR165: 18,		

1909	HP1BU04	798101	1919	288 - 392	4516			AR198: 5, AR243: 5, AR237: 5, AR309: 5, AR190: 4, AR250: 4, AR195: 4, AR264: 4, AR239: 4, AR201: 4, AR230: 4, AR283: 4, AR207: 4, AR205: 4, AR211: 4, AR266: 4, AR308: 4, AR227: 4, AR246: 4, AR060: 4, AR289: 4, AR271: 4, AR252: 4, AR311: 3, AR104: 3, AR232: 3, AR225: 3, AR168: 3, AR223: 3, AR055: 3, AR061: 3, AR210: 2, AR216: 2, AR224: 2, AR214: 2, AR235: 2, AR217: 2, AR263: 2, AR222: 2, AR172: 1, H0494: 1 and S0152: 1.
								AR089: 6, AR316: 5, AR060: 4 H0402: 1, S0152: 1 and L0589: 1.
1910	HP1CN83	743232	1920	195 - 305	4517	Gln-26 to Ala-33.		S0152: 1
1911	HP1CP75	886192	1921	34 - 138	4518			S0152: 1
1912	HP1CV35	827317	1922	527 - 664	4519	His-35 to His-40.		
1913	HP1CX13	852869	1923	1830 - 2027	4520	Ala-54 to Ser-61.		AR313: 14, AR052: 11, AR194: 10, AR294: 10, AR186: 10, AR089: 9, AR246: 9, AR204: 8, AR184: 8, AR206: 8, AR293: 8, AR249: 8, AR182: 8, AR226: 7, AR270: 7, AR299: 7, AR300: 7, AR192: 6, AR055: 6, AR251: 6, AR312: 6, AR241: 6.

1914	HPLAW13	840839	1924	199 - 312	4521	Lys-2 to Ser-9.	AR316: 6, AR274: 6, AR292: 6, AR213: 6, AR060: 6, AR282: 6, AR096: 6, AR053: 6, AR269: 6, AR309: 5, AR267: 5, AR185: 5, AR175: 5, AR258: 5, AR229: 5, AR271: 5, AR061: 5, AR238: 5, AR286: 5, AR183: 5, AR273: 5, AR033: 5, AR202: 5, AR263: 5, AR039: 5, AR310: 5, AR237: 5, AR290: 5, AR268: 4, AR296: 4, AR104: 4, AR234: 4, AR277: 4, AR253: 4, AR198: 4, AR298: 4, AR233: 4, AR265: 4, AR295: 4, AR275: 4, AR259: 3, AR291: 3, AR218: 3, AR285: 3, AR219: 3, AR205: 3, AR247: 3, AR231: 3, AR289: 3, AR283: 3, AR243: 3, AR240: 3, AR227: 2, AR256: 2, AR248: 2, AR232: 2, AR179: 2, AR284: 2, AR266: 2, AR177: 2, AR315: 1 S0216: 7, S0052: 6, S0152: 5, H0637: 3, H0694: 2, S0114: 1, S0001: 1, H0305: 1, H0619: 1, H0036: 1, H0615: 1, H0030: 1, H0032: 1, H0059: 1, L0532: 1, S0428: 1, L0758: 1 and H0543: 1	L0752: 26, H0670: 7, L0777: 7, H0553: 6, L0754: 5, H0032:
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1915	HPMA131	559369	1925	142 - 270	4522	Lys-38 to Lys-43.	<p>4, H0038: 3, L0750: 3, L0756: 3, S0242: 3, H0318: 2, H0039: 2, H0030: 2, L0637: 2, L0748: 2, L0747: 2, L0749: 2, L0759: 2, L0600: 2, S0212: 1, L0005: 1, H0393: 1, S0026: 1, H0369: 1, H0574: 1, L0622: 1, H0244: 1, L0021: 1, H0098: 1, H0014: 1, H0510: 1, S0028: 1, H0111: 1, H0616: 1, H0623: 1, S0464: 1, H0509: 1, L0662: 1, L0774: 1, L0773: 1, L0651: 1, L0665: 1, H0638: 1, H0518: 1, S0044: 1, L0439: 1, L0779: 1, L0755: 1, L0731: 1 and L0605: 1.</p> <p>AR089: 8, AR316: 8, AR060: 7</p> <p>L0776: 8, L0809: 5, L0800: 4, L0731: 4, L0734: 4, H0031: 3, S0328: 3, L0755: 3, L0757: 3, L0764: 2, L0775: 2, L0748: 2, L0777: 2, L0731: 2, L0808: 1, H0661: 1, S0132: 1, S0222: 1, L0055: 1, H0100: 1, L0761: 1, L0772: 1, L0644: 1, L0773: 1, L0804: 1, L0805: 1, L0787: 1, S0152: 1, H0521: 1, L0749: 1, L0780: 1 and L0601: 1.</p>	Lip15.5	<p>125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142000, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631</p>
1916	HPMB191	638147	1926	216 - 251	4523		<p>H0031: 4, L0747: 2 and L0750: 1.</p>		
1917	HPMBT05	658715	1927	147 - 245	4524		H0031: 3		
1918	HPMBW05	639092	1928	523 - 534	4525		<p>L0803: 5, L0439: 4, L0471: 3, L0758: 3, H0331: 2, H0031: 2, L0809: 2, L0666: 2, L0663: 2, H0662: 1, S0358: 1, H0632: 1, H0486: 1, H0036: 1, S0388: 1, T0067: 1, H0494: 1, L0772: 1, L0646: 1, L0789: 1, S0374: 1, L0438: 1, H0648: 1, S0330: 1</p>		

1919	HPMCW10	702013	1929	169 - 246	4326		1, H0631: 1, L0748: 1, L0779: 1 and H0653: 1. H0539: 33, H0046: 13, S0410: 11, L0747: 10, H0333: 9, L0779: 7, S0360: 6, L0439: 6, H0135: 5, L0770: 5, L0794: 5, L0663: 5, H0144: 5, L0740: 5, L0771: 5, H0587: 4, H0024: 4, L0771: 4, L0662: 4, L0766: 4, L0659: 4, L0809: 4, L0754: 4, L0752: 4, L0731: 4, H0052: 3, H0620: 3, S0388: 3, L0769: 3, L0757: 3, L0758: 3, L0759: 3, L0595: 3, H0624: 2, H0295: 2, S0356: 2, H0586: 2, S0049: 2, H0545: 2, H0031: 2, H0087: 2, L0805: 2, L0789: 2, L0666: 2, H0547: 2, H0696: 2, L0742: 2, L0744: 2, L0748: 2, L0749: 2, S0436: 2, L0591: 2, H0422: 2, H0686: 1, H0713: 1, H0294: 1, S0114: 1, H0657: 1, H0484: 1, H0483: 1, H0661: 1, H0662: 1, H0402: 1, S0418: 1, S0420: 1, S0358: 1, S0444: 1, H0645: 1, S0300: 1, L0717: 1, H0549: 1, S0222: 1, H0441: 1, H0592: 1, S0005: 1, H0013: 1, H0244: 1, S0280: 1, L0021: 1, H0036: 1, L0105: 1, H0309: 1, T0110: 1, H0546: 1, H0015: 1, H0594: 1, H0615: 1, H0622: 1, H0644: 1, L0142: 1, H0181: 1, H0617: 1, H0032: 1, H0376: 1, H0090: 1, H0040: 1, T0004: 1, H0100: 1, H0334: 1, S0440: 1, L0598: 1, L0764: 1, L0768: 1, L0381: 1, L0803: 1, L0804: 1, L0774: 1, L0375: 1, L0806: 1, L0657: 1, L0384: 1, L0519: 1, L0791: 1.
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1920	HPM/CZ18	753435	1930	772 - 804	4527		<p>1, L0665: 1, L0438: 1, H0520: 1, H0593: 1, H0690: 1, H0684: 1, S0380: 1, H0521: 1, S0406: 1, H0345: 1, S0037: 1, S0027: 1, S0028: 1, L0756: 1, L0786: 1, L0780: 1, L0733: 1, S0031: 1, L0592: 1, L0485: 1, L0608: 1, S0192: 1 and S0456: 1.</p> <p>L0754: 10, L0731: 5, L0771: 1</p> <p>4, L0803: 4, H0574: 3, L0774: 3, L0748: 3, L0439: 3, H0013: 2, H0024: 2, H0510: 2, H0553: 2, H0623: 2, L0766: 2, H0144: 2, H0660: 2, L0747: 2, L0755: 2, S0110: 1, S0354: 1, S0358: 2, S0007: 1, H0441: 1, H0370: 1, H0455: 1, H0599: 1, H0575: 1, H0590: 1, S0010: 1, S0049: 1, H0046: 1, H0069: 1, H0123: 1, H0292: 1, H0428: 1, H0031: 1, H0644: 1, H0509: 1, L0764: 1, L0804: 1, L0806: 1, L0809: 1, L0666: 1, L0438: 1, H0547: 1, H0521: 1, H0696: 1, S0044: 1, L0741: 1, L0744: 1, L0750: 1, L0779: 1, L0591: 1 and L0603: 1.</p>	
1921	HPMDA80	651354	1931	166 - 315	4528		<p>L0809: 4, L0666: 4, L0756: 4, H0254: 3, H0012: 3, H0620: 3, L0439: 3, H0170: 2, H0550: 2, H0497: 2, H0052: 2, H0263: 2, H0031: 2, L0625: 2, L0769: 2, L0761: 2, L0372: 2, L0766: 2, L0438: 2, H0539: 2, L0777: 2, S0436: 2, L0604: 2, H0265: 1, H0295: 1, S0114: 1, L0417: 1, H0255: 1, H0663: 1, S0418: 1, S0356: 1, S0442: 1, S0444: 1, H0728: 1, S0007: 1, S0046: 1, S0476: 1, H0549: 1, H0441: 1.</p>	

1922	HPMDD27	830748	1932	327 - 491	4529		<p>1, H0586: 1, L0622: 1, H0486: 1, H0599: 1, H0706: 1, H0618: 1, T0006: 1, S0366: 1, H0488: 1, H0100: 1, L0351: 1, T0042: 1, H0132: 1, S0002: 1, L0770: 1, L5566: 1, L0772: 1, L0373: 1, L0646: 1, L0764: 1, L0662: 1, L0649: 1, L0630: 1, L0774: 1, L0775: 1, L0638: 1, L0659: 1, H0593: 1, H0651: 1, S0330: 1, S0152: 1, S0404: 1, S0406: 1, H0555: 1, H0631: 1, S0432: 1, L0744: 1, L0748: 1, H0445: 1, S0434: 1, L0485: 1, H0542: 1 and H0422: 1.</p> <p>L0803: 12, H0581: 8, S0338: 6, H0046: 6, H0428: 6, S0356: 3, S0007: 3, H0031: 4, L0666: 4, L0665: 4, H0271: 3, H0058: 3, L0794: 3, L0804: 3, H0693: 3, S0406: 3, L0756: 3, L0758: 3, L0592: 3, S0116: 2, S0444: 2, H0431: 2, H0586: 2, H0486: 2, L0471: 2, H0615: 2, H0039: 2, S0036: 2, H0616: 2, S0422: 2, H0529: 2, L0770: 2, L0521: 2, L0662: 2, L0776: 2, L0787: 2, L0663: 2, L0438: 2, H0670: 2, H0660: 2, S0338: 2, S0330: 2, H0436: 2, L0748: 2, L0755: 2, L0485: 2, L0599: 2, S0192: 2, H0423: 2, H0624: 1, S0342: 1, S0114: 1, H0650: 1, H0657: 1, H0638: 1, S0354: 1, S0360: 1, S0408: 1, S0410: 1, H0329: 1, S0045: 1, S0046: 1, S0278: 1, H0441: 1, H0497: 1, H0331: 1, T0109: 1, S0280: 1, H0705: 1, H0318: 1, S0474: 1, T0110: 1, H0565: 1, H0572: 1, H0050:</p>
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1923	HPMDF45	638148	1933	58 - 177	4530	Pro-18 to Gly-23.	1, H0687: 1, S0003: 1, H0553: 1, H0488: 1, H0412: 1, T0041: 1, H0494: 1, S0438: 1, S0440: 1, S0144: 1, H0517: 1, L0763: 1, L0772: 1, L0372: 1, L0800: 1, L0764: 1, L0364: 1, L0649: 1, L0774: 1, L0523: 1, L0805: 1, L0655: 1, L0807: 1, L0527: 1, L0659: 1, L0783: 1, L0809: 1, L0664: 1, S0428: 1, S0053: 1, H0144: 1, S0374: 1, H0520: 1, H0519: 1, S0126: 1, H0682: 1, H0435: 1, H0648: 1, H0672: 1, S0378: 1, H0521: 1, S0044: 1, H0478: 1, H0627: 1, H0631: 1, S0027: 1, L0439: 1, L0740: 1, L0747: 1, L0749: 1, L0777: 1, L0752: 1, H0445: 1, S0436: 1, L0591: 1, S0196: 1, H0543: 1, S0424: 1, S0462: 1, S0446: 1 and H0506: 1.			1, H0687: 1, S0003: 1, H0553: 1, H0488: 1, H0412: 1, T0041: 1, H0494: 1, S0438: 1, S0440: 1, S0144: 1, H0517: 1, L0763: 1, L0772: 1, L0372: 1, L0800: 1, L0764: 1, L0364: 1, L0649: 1, L0774: 1, L0523: 1, L0805: 1, L0655: 1, L0807: 1, L0527: 1, L0659: 1, L0783: 1, L0809: 1, L0664: 1, S0428: 1, S0053: 1, H0144: 1, S0374: 1, H0520: 1, H0519: 1, S0126: 1, H0682: 1, H0435: 1, H0648: 1, H0672: 1, S0378: 1, H0521: 1, S0044: 1, H0478: 1, H0627: 1, H0631: 1, S0027: 1, L0439: 1, L0740: 1, L0747: 1, L0749: 1, L0777: 1, L0752: 1, H0445: 1, S0436: 1, L0591: 1, S0196: 1, H0543: 1, S0424: 1, S0462: 1, S0446: 1 and H0506: 1.
1924	HPMDP57	567303	1934	233 - 328	4531		L0748: 2, S0134: 1, H0609: 1, H0069: 1, H0012: 1, H0239: 1, H0031: 1 and H0561: 1.			1, H0031: 1, L0663: 1, S0028: 1, L0742: 1, L0439: 1 and H0444: 1.
1925	HPMEG72	795709	1935	172 - 267	4532		L0766: 5, L0747: 3, L0362: 2, S0218: 1, L0002: 1, H0637: 1, H0550: 1, H0486: 1, H0250: 1, S0010: 1, H0421: 1, H0179: 1, H0271: 1, H0031: 1, H0560: 1, H0641: 1, S0002: 1, S0216: 1, H0144: 1, H0670: 1, H0518: 1 and H0445: 1.			
1926	HPMFM70	756931	1936	749 - 865	4533		S0114: 2, H0031: 2, H0265: 1, S0282: 1, H0069: 1, H0635: 1, H0673: 1, H0264: 1, S0428: 1, H0436: 1, L0779: 1 and L0731: 1.			

1927	HPMF48	597457	1937	166 - 288	4534		AR089: 9, AR316: 8, AR060: 7 H0031: 3, S0438: 2, H0170: 1, S0116: 1, H0661: 1, H0125: 1, S0444: 1, H0574: 1, H0486: 1, H0012: 1, H0124: 1, H0413: 1, L0769: 1, L3905: 1, L0665: 1, H0672: 1, H0576: 1, L0748: 1, L0757: 1, L0759: 1, S0434: 1, S0026: 1 and H0543: 1, L0439: 7, L0803: 5, L0369: 3, L0749: 3, L0717: 2, H0586: 2, H0031: 2, H0529: 2, L0804: 2, L0663: 2, H0519: 2, L0747: 2, L0756: 2, L0777: 2, L0759: 2, L0592: 2, L0593: 2, L0362: 2, S0276: 2, H0458: 1, H0638: 1, S0354: 1, S0358: 1, H0580: 1, S0046: 1, S0278: 1, S0022: 1, H0587: 1, H0486: 1, H0013: 1, H0052: 1, H0251: 1, H0544: 1, H0566: 1, L0471: 1, H0051: 1, S0368: 1, H0032: 1, H0591: 1, H0413: 1, H0560: 1, S0150: 1, L0770: 1, L0372: 1, L0771: 1, L0386: 1, L0775: 1, L0805: 1, L0776: 1, L0659: 1, L0809: 1, L0789: 1, L0666: 1, L0665: 1, H0520: 1, H0547: 1, H0689: 1, H0659: 1, H0672: 1, H0539: 1, H0521: 1, H0631: 1, S0206: 1, L0752: 1, L0608: 1, H0653: 1, H0665: 1, H0542: 1 and S0424: 1, S0354: 1, S0028: 1 and H0031: 1.		
1928	HPMF01	844865	1938	95 - 151	4535		7		
1929	HPMG06	590991	1939	67 - 333	4536	Thr-31 to Gly-36, Ala-39 to Asp-45, Tyr-65 to Gly-71, Arg-79 to Gly-88.			
1930	HPMGW43	830452	1940	12 - 50	4537		AR089: 5, AR316: 4, AR060: 4		
							600281, 600281		

600281, 600281

20q13

1931	HPM(GY89	822864	1941	110 - 277	4538				L0759: 10, L0748: 6, L0766: 5, L0777: 5, L0783: 4, L0439: 4, H0556: 3, L0747: 3, L0749: 3, L0752: 3, L0731: 3, H0657: 2, S0360: 2, H0031: 2, H0551: 2, H0056: 2, L0438: 2, L0756: 2, L0596: 2, L0591: 2, L0595: 2, L0362: 2, L0603: 2, H0543: 2, S0040: 1, S0420: 1, S0376: 1, H0619: 1, H0370: 1, H0331: 1, L0021: 1, H0599: 1, S0346: 1, H0046: 1, H0012: 1, S0051: 1, H0375: 1, H0188: 1, T0006: 1, L0455: 1, H0477: 1, H0623: 1, L0351: 1, S0440: 1, L0451: 1, L0769: 1, L0639: 1, L0761: 1, L0773: 1, L0768: 1, L0774: 1, L0806: 1, L0653: 1, L0776: 1, L0639: 1, L0665: 1, H0144: 1, S0374: 1, H0547: 1, H0672: 1, H0539: 1, S0027: 1, L0744: 1, L0750: 1, L0779: 1, L0758: 1, S0260: 1, H0422: 1 and H0506: 1.	18q21.1-18q21.2	174810, 600624, 600993, 602080
1932	HPMK(B09	900362	1942	1351 - 1593	4539	His-48 to Ser-61, Ala-66 to Val-72.			H0521: 9, H0617: 7, H0087: 7, H0124: 6, H0657: 5, L0754: 5, H0556: 4, H0551: 4, H0641: 4, L0655: 4, S0410: 3, L0717: 3, H0486: 3, H0318: 3, S0002: 3, L0769: 3, S0356: 2, S0442: 2, S0476: 2, H0575: 2, S0474: 2.		

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1933	HPMSH26	780109	1943	322 - 393	4540	.	1, S0194: 1, S0276: 1, S0196: 1 and H0542: 1. AR089: 55 AR316: 48, AR060: 42 S0126: 18, H0551: 11, L0757: 10, H0494: 9, L0747: 9, L0659: 8, H0521: 8, L0605: 8, L0601: 8, S0010: 7, H0144: 7, S0330: 7, S0027: 7, L0740: 7, L0604: 7, S0212: 6, S0476: 6, H0586: 6, L0662: 6, L0776: 6, S3014: 6, L0734: 6, S0360: 5, S0278: 5, L0766: 5, L0775: 5, L0666: 5, S0374: 5, H0547: 5, S0152: 5, L0748: 5, L0439: 5, L0750: 5, L0599: 5, S0418: 4, S0420: 4, S0410: 4, H0580: 4, H0156: 4, S0346: 4, H0266: 4, S0003: 4, S0438: 4, S0344: 4, L0769: 4, L0654: 4, S0390: 4, L0731: 4, S0026: 4, S0040: 3, H0295: 3, H0402: 3, S0132: 3, H0550: 3, S0223: 3, H0013: 3, H0620: 3, H0622: 3, H0634: 3, H0623: 3, H0646: 3, S0142: 3, L0770: 3, L0803: 3, L0664: 3, L0438: 3, S0328: 3, H0539: 3, S3012: 3, S0028: 3, L0759: 3, S0436: 3, L0596: 3, L0589: 3, L0592: 3, H0653: 3, S0192: 3, S0194: 3, S0342: 2, H0713: 2, H0661: 2, H0638: 2, S0354: 2, S0358: 2, S0376: 2, S0408: 2, S0007: 2, S0045: 2, H0393: 2, S6022: 2, H0486: 2, S0474: 2, H0052: 2, H0194: 2, H0546: 2, H0545: 2, H0457: 2, H0051: 2, H0083: 2, S0250: 2, S0214: 2, H0328: 2, H0052: 2, H0169: 2, S0036: 2, S0038: 2, H0561:	2p14-p13	203800, 602404
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1934	HPMIS196	610023	1944	57 - 152	4541			1, S0052: 1, S0428: 1, S0053: 1, H0726: 1, H0520: 1, H0519: 1, H0593: 1, H0435: 1, H0659: 1, H0670: 1, S0380: 1, H0518: 1, H0436: 1, L0744: 1, L0746: 1, L0777: 1, L0752: 1, L0753: 1, L0755: 1, S0031: 1, H0444: 1, L0480: 1, L0485: 1, L0362: 1, H0668: 1, L0096: 1, S0196: 1, H0543: 1 and H0423: 1, H0111: 1, H0144: 1 and L0608: 1.	10cen-q26.11	
1935	HPQA125	853550	1945	85 - 204	4542			H0624: 1, H0171: 1, H0266: 1, H0039: 1, S0136: 1 and L0748: 1.	1p22-p21	102770, 120280, 120280, 166600, 170995, 191540, 232400, 232400, 274270, 274270, 600309, 601414, 601691, 601691, 601691, 601718, 602094
1936	HPQA127	782957	1946	233 - 355	4543		Ser-28 to Phe-39.	AR060: 5, AR316: 4, AR089: 2		
1937	HPQAN50	788813	1947	164 - 298	4544			S0136: 426 and H0559: 1, AR060: 5, AR316: 4, AR089: 2		
1938	HPQAO80	740261	1948	284 - 292	4545			S0136: 15 and H0615: 1, AR060: 5, AR316: 4, AR089: 3		
1939	HPQAW27	716371	1949	118 - 213	4546			S0136: 197 and H0559: 1, S0136: 27		
1940	HPQBC90	612818	1950	21 - 116	4547			S0136: 5		
1941	HPQB148	637788	1951	251 - 361	4548		Gln-20 to Leu-25.	AR060: 11, AR316: 8, AR089: 6		
1942	HPQB148	867512	1952	251 - 361	4549		Gln-20 to Leu-25.	S0136: 10, AR060: 11, AR316: 8, AR089: 6		
1943	HPQBL67	559372	1953	234 - 248	4550			S0136: 10, S0136: 57		

1944	HPQBT17	826413	1954	236-274	4551			AR060: 1 S0136: 136		
1945	HPQCF94	684368	1955	212-298	4552			AR060: 6, AR316: 4, AR089: 2 S0136: 85 S0136: 2		
1946	HPQCI62	566799	1956	237-461	4553		Gly-8 to Asp-13, Cys-21 to Tyr-26, Ser-58 to Ser-64.			
1947	HPQRS74	655361	1957	146-256	4554			AR060: 6, AR316: 5, AR089: 3 S0136: 73 and L0684: 1.		
1948	HPRAD30	805969	1958	99-320	4555		Arg-66 to Val-72.	S0136: 115, L0731: 10, H0624: 9, L0803: 9, S0026: 9, S0358: 7, L0439: 7, S0418: 6, L0805: 6, L0754: 6, H0619: 5, L0639: 5, L0666: 5, L0750: 5, L0756: 5, L0779: 5, H0170: 4, S0360: 4, H0553: 4, L0770: 4, L0662: 4, H0547: 4, L0759: 4, H0351: 3, H0486: 3, H0013: 3, H0046: 3, H0050: 3, L0471: 3, H0266: 3, H0623: 3, L0774: 3, L0776: 3, H0144: 3, H0520: 3, S0380: 3, L0777: 3, S0040: 2, H0295: 2, H0661: 2, S0420: 2, S0376: 2, H0722: 2, S0476: 2, H0369: 2, H0592: 2, H0333: 2, H0574: 2, H0427: 2, H0575: 2, H0051: 2, S0022: 2, H0615: 2, H0090: 2, S0438: 2, S0440: 2, L0598: 2, L0769: 2, L0766: 2, L0518: 2, L0663: 2, H0726: 2, S0126: 2, H0539: 2, H0321: 2, H0696: 2, H0555: 2, L0740: 2, L0747: 2, L0753: 2, L0755: 2, L0757: 2, L0593: 2, H0686: 1, S0212: 1, H0484: 1, H0671: 1, H0662: 1, S0356: 1, S0442: 1, S0354: 1, S0444: 1, H0645: 1, S0222: 1, H0441: 1, H0409: 1.		

1949	HPRCC91	638151	1959	653 - 682	4556	<p>H0586: 1, H0587: 1, H0632: 1, S0280: 1, H0156: 1, L0021: 1, H0599: 1, H0590: 1, L0105: 1, H0309: 1, L0040: 1, H0544: 1, H0545: 1, H0019: 1, L0163: 1, S0051: 1, H0275: 1, H0083: 1, H0375: 1, S6028: 1, S0250: 1, H0328: 1, H0428: 1, H0031: 1, H0111: 1, H0628: 1, H0032: 1, S0364: 1, H0135: 1, H0040: 1, H0616: 1, H0551: 1, H0380: 1, H0268: 1, H0100: 1, H0494: 1, H0652: 1, S0210: 1, L0763: 1, L0796: 1, L5566: 1, L0646: 1, L0800: 1, L0764: 1, L0771: 1, L0768: 1, L0794: 1, L0649: 1, L0804: 1, L0775: 1, L0806: 1, L0527: 1, L0636: 1, L0783: 1, L0790: 1, S0296: 1, H0693: 1, H0519: 1, H0690: 1, H0682: 1, H0684: 1, H0648: 1, H0672: 1, S0454: 1, S0013: 1, H0626: 1, H0627: 1, S0028: 1, L0744: 1, L0745: 1, L0752: 1, L0758: 1, S0434: 1, S0436: 1, L0592: 1, H0667: 1, S0194: 1 and H0506: 1.</p>	
						<p>AR228: 5, AR295: 4, AR216: 4, AR262: 4, AR221: 3, AR223: 3, AR288: 3, AR267: 3, AR299: 3, AR252: 3, AR060: 3, AR237: 2, AR250: 2, AR309: 2, AR205: 2, AR212: 2, AR165: 2, AR033: 2, AR282: 2, AR274: 2, AR217: 2, AR270: 2, AR275: 2, AR240: 2, AR308: 1, AR233: 1.</p>	

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AR277: 1, AR039: 1, AR168: 1, AR104: 1, AR225: 1, AR311: 1, AR236: 1, AR163: 1, L0757: 13, L0759: 11, L0485: 10, L0731: 9, L0747: 6, H0013: 5, T0010: 5, H0031: 5, L0748: 5, H0050: 4, L0770: 4, L0764: 4, L0740: 4, L0750: 4, L0758: 4, H0014: 3, S0366: 3, L0662: 3, L0666: 3, L0438: 3, L0756: 3, L0599: 3, S0376: 2, S0046: 2, H0619: 2, S0010: 2, H0032: 2, H0135: 2, L0598: 2, L0761: 2, L0646: 2, L0766: 2, L0803: 2, L0775: 2, L0806: 2, L0776: 2, L0657: 2, L0659: 2, L0518: 2, L0665: 2, H0144: 2, H0547: 2, S0328: 2, S0330: 2, H0521: 2, L0439: 2, L0751: 2, L0749: 2, L0777: 2, L0592: 2, L0362: 2, H0170: 1, H0265: 1, H0556: 1, H0222: 1, H0662: 1, S0418: 1, L0005: 1, S0356: 1, S0358: 1, S0360: 1, S0408: 1, H0489: 1, H0729: 1, H0733: 1, S0468: 1, H0208: 1, H0549: 1, S0222: 1, H0370: 1, H0587: 1, H0497: 1, H0331: 1, H0486: 1, T0039: 1, T0109: 1, H0156: 1, H0575: 1, T0082: 1, H0706: 1, S0346: 1, H0318: 1, H0581: 1, H0052: 1, H0309: 1, H0545: 1, H0178: 1, H0123: 1, L0471: 1, S0050: 1, L0163: 1, H0051: 1, S6028: 1, H0687: 1, H0286: 1, H0328: 1, H0622: 1, L0455: 1, H0708: 1, H0316: 1, H0038: 1, H0551: 1, H0164: 1, H0413: 1, S0386: 1, L0351: 1, L0435:
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1950	HPRC740	834808	1960	2217 - 2321	4557							1, T0042: 1, H0359: 1, S0370: 1, H0646: 1, H0026: 1, L0763: 1, L0796: 1, L0644: 1, L0771: 1, L0773: 1, L0626: 1, L0767: 1, L0768: 1, L0387: 1, L0774: 1, L0375: 1, L0651: 1, L0635: 1, L0807: 1, L0658: 1, L0538: 1, L0783: 1, L0809: 1, L0543: 1, L0647: 1, L0663: 1, H0698: 1, S0374: 1, H0723: 1, H0691: 1, H0520: 1, H0689: 1, H0682: 1, H0672: 1, H0696: 1, S0044: 1, S3014: 1, S0028: 1, L0742: 1, L0779: 1, L0732: 1, S0031: 1, H0445: 1, S0436: 1, L0596: 1, L0588: 1, L0593: 1, L0603: 1, H0667: 1, H0542: 1 and H0506: 1
												AR089: 7, AR316: 6, AR060: 5 L0748: 15, L0803: 9, L0745: 8, L0731: 7, L0740: 6, L0754: 6, L0749: 6, L0746: 5, S0356: 4, H0052: 4, L0766: 4, L0743: 4, L0777: 4, L0758: 4, S0360: 3, S0003: 3, H0032: 3, H0646: 3, L0794: 3, L0775: 3, L0438: 3, H0522: 3, L0439: 3, L0485: 3, S0222: 2, H0581: 2, H0014: 2, H0591: 2, L0804: 2, L0776: 2, L0666: 2, L0664: 2, L0665: 2, H0435: 2, L0590: 2, L0591: 2, H0542: 2, H0543: 2, L0600: 2, H0686: 1, S6024: 1, H0664: 1, S0358: 1, S0376: 1, H0331: 1, S0414: 1, H0492: 1, H0486: 1, L0021: 1, T0082: 1, H0004: 1, S0010: 1, L0105: 1, H0242: 1, L0471: 1, H0510: 1, H0039: 1, H0622: 1, H0553: 1, H0090:

1951	HPRCF50	638153	1961	151 - 306	4558			1, H0038: 1, H0040: 1, H0616: 1, H0059: 1, H0654: 1, S0142: 1, H0538: 1, S0426: 1, L0637: 1, L0761: 1, L0667: 1, L0764: 1, L0771: 1, L0768: 1, L0560: 1, L0774: 1, L0784: 1, L0806: 1, L0805: 1, L0652: 1, L0659: 1, L0809: 1, H0144: 1, S0374: 1, H0519: 1, H0593: 1, S0122: 1, H0684: 1, H0659: 1, H0658: 1, H0666: 1, S0330: 1, H0539: 1, S0152: 1, H0521: 1, H0187: 1, L0747: 1, L0750: 1, L0779: 1, L0757: 1, L0759: 1, S0192: 1, S0242: 1, S0194: 1 and H0422: 1.		
	HPRCF50		1961	151 - 306	4558			S0402: 1, H0645: 1, H0549: 1, T0040: 1, H0032: 1, S0002: 1, S0152: 1 and H0665: 1.		
1952	HPRCL58	566873	1962	171 - 263	4559			H0032: 1	15q14	102540, 118511, 218000, 227220, 243500, 254770, 601800
1953	HPRCM72	813512	1963	281 - 607	4560		Arg-76 to Lys-91.	AR060: 6, AR316: 5, AR089: 4, L0766: 11, L0748: 10, L0731: 6, L0805: 5, L0776: 5, L0777: 5, L0752: 5, L0759: 5, L0659: 4, L0666: 4, L0665: 4, L0754: 4, L0749: 4, L0757: 4, S0356: 3, H0580: 3, H0519: 3, L0740: 3, L0756: 3, H0624: 2, H0716: 2, H0208: 2, H0574: 2, H0052: 2, S0003: 2, H0328: 2, L0649: 2, L0663: 2, L0439: 2, L0745: 2, L0747: 2, L0605: 2, L0362: 2, H0170: 1, H0686: 1, S0212: 1, H0483: 1, H0255: 1, S0348: 1, S0418: 1, S0376: 1, S0360: 1, S0007: 1, H0619: 1,		

						S0222: 1, H0586: 1, H0486: 1, H0250: 1, S0010: 1, L0105: 1, H0194: 1, H0327: 1, H0565: 1, H0123: 1, H0050: 1, H0024: 1, H0015: 1, S0051: 1, S0318: 1, S0316: 1, S0214: 1, H0553: 1, H0030: 1, H0032: 1, H0068: 1, H0163: 1, H0413: 1, S0038: 1, S0344: 1, S0422: 1, S0426: 1, L0763: 1, L0761: 1, L0642: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0774: 1, L0775: 1, L0376: 1, L0806: 1, L0657: 1, L0517: 1, L0545: 1, L0529: 1, L0791: 1, L0664: 1, H0144: 1, L0438: 1, H0520: 1, H0689: 1, H0684: 1, H0435: 1, H0660: 1, H0672: 1, H0539: 1, H0521: 1, L0750: 1, L0779: 1, L0755: 1, S0031: 1, S0436: 1, L0608: 1, S0242: 1, S0276: 1, H0542: 1, H0543: 1, H0423: 1 and H0506: 1.
1954	HPRCS59	60153	1964	142 - 174	4561	L0438: 10, L0766: 9, L0748: 9, L0773: 8, L0805: 6, L0742: 6, H0457: 5, L0771: 5, L0803: 5, H0672: 5, H0591: 4, L0794: 4, L0754: 4, L0779: 4, L0758: 4, L0759: 4, L0415: 3, H0024: 3, H0252: 3, H0032: 3, L0770: 3, L0761: 3, L0804: 3, L0776: 3, L0666: 3, L0665: 3, L0439: 3, H0624: 2, S0444: 2, S0360: 2, L0717: 2, T0039: 2, H0013: 2, S0003: 2, H0428: 2, L0662: 2, L0659: 2, L0809: 2, L0740: 2, L0753: 2, L0588: 2, L0485: 2, L0581: 2, S0026: 2, S6024: 1, H0295: 1, H0657: 1, S0116:
1955	HPRC173	610024	1965	135 - 170	4562	203310

1956	HPRT1156	852240	1966	25 - 105	4563	<p>1, S0212: 1, H0663: 1, H0402: 1, S0418: 1, S0420: 1, S0442: 1, S0354: 1, S0376: 1, S0046: 1, H0351: 1, H0411: 1, H0600: 1, H0069: 1, H0156: 1, H0599: 1, H0004: 1, S0346: 1, H0318: 1, H0581: 1, L0040: 1, L0471: 1, T0003: 1, S0050: 1, H0014: 1, L0163: 1, S0388: 1, S6028: 1, H0267: 1, H0687: 1, H0070: 1, L0194: 1, T0006: 1, H0673: 1, L0456: 1, H0316: 1, H0038: 1, H0040: 1, H0616: 1, H0623: 1, H0100: 1, S0440: 1, H0509: 1, S0426: 1, L0598: 1, H0529: 1, L0763: 1, L0637: 1, L0772: 1, L0646: 1, L0521: 1, L0768: 1, L0649: 1, L0775: 1, L0806: 1, L0655: 1, L0657: 1, L0515: 1, L0789: 1, L0790: 1, L0532: 1, L0663: 1, S0374: 1, L0565: 1, H0520: 1, H0519: 1, H0593: 1, H0658: 1, H0670: 1, H0660: 1, S0330: 1, S0350: 1, H0521: 1, S0404: 1, S0406: 1, H0436: 1, H0631: 1, L0750: 1, L0757: 1, L0589: 1, L0599: 1, H0136: 1, S0276: 1 and H0422: 1.</p>		
						<p>H0428: 2, L0369: 2, L0771: 2, L0803: 2, L0774: 2, L0805: 2, L0665: 2, L0731: 2, L0759: 2, H0556: 1, H0402: 1, S0360: 1, L0717: 1, H0013: 1, S0280: 1, H0252: 1, H0212: 1, L0598: 1, L0770: 1, L0769: 1, L0646: 1, L0636: 1, L0518: 1, L0783: 1, L0809: 1, L0790: 1, S0052: 1, L0438: 1, H0520: 1, H0593: 1, H0672: 1, H0539: 1, L0758: 1, S0196: 1 and H0422: 1.</p>		

1957	HPTRL80	884167	1967	102 - 665	4564	Gly-35 to Ser-40, Ser-61 to Arg-72, Pro-148 to Arg-172.	AR089: 27, AR316: 23, AR060: 19 L0769: 5, L0759: 4, H0402: 3, S0376: 3, H0424: 3, L0749: 3, S0360: 2, S0222: 2, L0535: 2, L0774: 2, L0806: 2, L0384: 2, L0666: 2, H0265: 1, S0218: 1, H0484: 1, H0255: 1, S0354: 1, S0007: 1, H0392: 1, H0559: 1, H0486: 1, T0039: 1, T0060: 1, L0021: 1, H0004: 1, H0581: 1, H0032: 1, H0204: 1, H024: 1, H0405: 1, H0617: 1, H0606: 1, H0090: 1, H0272: 1, H0494: 1, S0002: 1, L0770: 1, L0772: 1, L0372: 1, L0641: 1, L0645: 1, L0771: 1, L0768: 1, L0794: 1, L0381: 1, L0775: 1, L0789: 1, H0547: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, H0576: 1, L0744: 1, L0779: 1, L0758: 1, H0445: 1, H0423: 1 and H0422: 1.	22q13.33	
1958	HPTRL42	655362	1968	266 - 481	4565	Pro-19 to Pro-26, Gly-33 to Ser-38, Gly-45 to Tyr-52, Ser-65 to Ser-71.	AR060: 22, AR316: 16, AR089: 10 H0618: 3, H0619: 2, H0424: 2, L0776: 2, H0136: 2, S0276: 2, H0716: 1, H0261: 1, H0250: 1, H0575: 1, H0036: 1, H0310: 1, H0052: 1, H0123: 1, H0024: 1, H0401: 1, H0169: 1, H0616: 1, L0351: 1, H0652: 1, L0768: 1, L0766: 1, L0803: 1, L0659: 1, L0809: 1, L0666: 1, L0665: 1, S0126: 1, H0672: 1, H0539: 1, S0406: 1, H0576: 1, L0439: 1, L0779: 1, L0777: 1 and H0423: 1.	11	
1959	HPTRL95	838154	1969	149 - 262	4566	Met-1 to Pro-7.	AR226: 36, AR232: 21, AR061: 14, AR238: 13, H0423: 1.		

[illegible]

						AR290: 4, AR296: 4, AR173: 4, AR217: 4, AR033: 4, AR096: 4, AR311: 4, AR245: 3, AR055: 3, AR104: 3, AR189: 3, AR294: 3, AR221: 3, AR264: 3, AR198: 3, AR168: 3, AR212: 3, AR222: 3, AR258: 3, AR179: 3, AR174: 3, AR185: 3, AR205: 3, AR195: 3, AR193: 3, AR274: 3, AR210: 3, AR256: 3, AR313: 3, AR260: 2, AR308: 2, AR271: 2, AR213: 2, AR263: 2, AR211: 2, AR219: 2, AR216: 2, AR312: 2, AR242: 1, AR253: 1, AR218: 1, AR250: 1, L0439: 12, L0751: 6, H0424: 5, L0766: 4, L0653: 3, L0809: 3, L0748: 3, L0759: 3, S0028: 2, L0754: 2, L0747: 2, S0026: 2, S0412: 2, H0656: 1, H0619: 1, L0717: 1, T0109: 1, S0010: 1, H0545: 1, H0150: 1, H0051: 1, S6028: 1, H0266: 1, L0643: 1, L0764: 1, L0768: 1, L0649: 1, L0803: 1, L0774: 1, L0775: 1, L0805: 1, L0783: 1, L0647: 1, L0789: 1, L0664: 1, H0144: 1, L0438: 1, H0670: 1, H0672: 1, L0749: 1, L0777: 1, L0780: 1, L0758: 1, S0242: 1, H0423: 1 and L0600: 1.	
1960	HPTRQ32	655363	1970	224 - 325	4567	AR089: 23, AR316: 21, AR060: 19 H0694: 12, L0748: 10, 130500, 133200, 138140, 168360, 171760, 171760,	

079505083E
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176100, 176100; 178300, 230000; 255800	L0731: 7, L0754: 6, H0265: 5, H0556: 5, L0758: 5, S0420: 4, S0408: 4, L0517: 4, H0657: 3, H0618: 3, H0052: 3, H0083: 3, H0553: 3, H0124: 3, H0494: 3, L0763: 3, L0666: 3, L0663: 3, S0126: 3, L0747: 3, H0295: 2, S0134: 2, S0418: 2, H0637: 2, S0046: 2, H0431: 2, H0575: 2, H0545: 2, H0271: 2, H0039: 2, H0424: 2, H0641: 2, L0764: 2, L0766: 2, L0774: 2, L0775: 2, L0776: 2, L0655: 2, L0783: 2, L0665: 2, H0519: 2, H0522: 2, S0044: 2, L0755: 2, L0595: 2, L0362: 2, H0543: 2, S0040: 1, H0294: 1, H0656: 1, S0212: 1, H0484: 1, H0661: 1, H0662: 1, S0360: 1, H0619: 1, S0222: 1, H0486: 1, H0156: 1, H0706: 1, H0253: 1, S0010: 1, S0346: 1, H0318: 1, H0596: 1, H0231: 1, H0046: 1, H0150: 1, H0081: 1, H0050: 1, H0012: 1, H0620: 1, H0014: 1, L0163: 1, S0051: 1, T0010: 1, S0028: 1, H0266: 1, H0179: 1, H0292: 1, H0031: 1, H0644: 1, H0182: 1, H0617: 1, H0606: 1, H0673: 1, L0455: 1, L0456: 1, H0598: 1, H0038: 1, H0040: 1, H0616: 1, H0087: 1, T0067: 1, H0264: 1, T0041: 1, H0131: 1, H0647: 1, S0002: 1, L0772: 1, L0642: 1, L0662: 1, L0767: 1, L0657: 1, L0659: 1, L0382: 1, L0664: 1, H0144: 1, S0374: 1, H0593: 1, H0690: 1, H0682: 1, H0659: 1, H0658: 1, H0666: 1, H0651: 1, H0539: 1, H0521: 1, S0406: 1, H0576: 1,
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1961	HPTTH35	566875	1971	80 - 142	4568		L0743: 1, L0740: 1, L0750: 1, L0779: 1, H0445: 1 and S0436: 1. 1, L0809: 6, L0751: 5, L0747: 5, H0556: 4, L0749: 4, L0774: 3, L0748: 3, H0265: 2, S0003: 2, L0439: 2, L0757: 2, L0758: 2, H0656: 1, S0116: 1, H0484: 1, H0664: 1, S0356: 1, S0360: 1, S0476: 1, S6026: 1, H0333: 1, H0618: 1, H0253: 1, H0009: 1, H0424: 1, H0213: 1, H0135: 1, H0090: 1, H0560: 1, H0396: 1, S0142: 1, S0344: 1, L0763: 1, L0769: 1, L5566: 1, L0800: 1, L0794: 1, L0766: 1, L0659: 1, L0647: 1, L0789: 1, H0670: 1, S0206: 1, L0741: 1, L0740: 1, L0756: 1, L0752: 1, L0608: 1, L0362: 1 and S0276: 1. H0424: 2, L0615: 1, H0213: 1 and H0658: 1.	4q21-qter
1962	HPTTH65	612865	1972	210 - 326	4569	Arg-22 to Trp-27, Gln-29 to Glu-36.	1	
1963	HPTTH62	561954	1973	222 - 413	4570	Pro-27 to Cys-33.	1	
1964	HPTVH24	831983	1974	766 - 873	4571		9	

1965	HPTVH59	695753	1975	144 - 278	4572	Pro-24 to Gln-44.	<p>2. H0521: 2, L0750: 2, L0596: 2, L0591: 2, H0556: 1, S0040: 1, H0657: 1, S0212: 1, H0638: 1, S0418: 1, S0360: 1, S0045: 1, H0261: 1, H0607: 1, H0592: 1, H0586: 1, L0622: 1, L0021: 1, H0575: 1, T0048: 1, H0421: 1, H0041: 1, H0123: 1, H0019: 1, H0051: 1, T0010: 1, H0181: 1, S0366: 1, H0641: 1, L0637: 1, L0800: 1, L0771: 1, L0773: 1, L0364: 1, L0804: 1, L0775: 1, L0634: 1, L0639: 1, L0783: 1, L0792: 1, S0052: 1, H0703: 1, S0374: 1, H0638: 1, H0666: 1, S0378: 1, S0380: 1, H0522: 1, S0406: 1, H0478: 1, S0037: 1, L0743: 1, L0740: 1, L0779: 1, L0758: 1, H0445: 1, H0542: 1 and H0543: 1.</p> <p>H0424: 15, S0024: 1, H0033: 1, H0213: 1, L0769: 1 and L0805: 1.</p>	1	
1966	HPTV104	897503	1976	273 - 470	4573	<p>Ser-23 to Arg-30, Gln-42 to Pro-48, Arg-50 to Arg-56.</p>	<p>L0764: 4, L0439: 4, H0424: 3, L0639: 3, H0617: 2, L0666: 2, L0736: 2, L0737: 2, H0543: 2, S0222: 1, H0492: 1, H0270: 1, H0036: 1, H0620: 1, H0023: 1, L0638: 1, L0761: 1, L0646: 1, L0662: 1, L0766: 1, L0655: 1, L0783: 1, L0809: 1, L0664: 1, L0438: 1, H0682: 1, H0436: 1, L0747: 1, L0779: 1, L0777: 1, L0758: 1 and H0423: 1.</p> <p>L0809: 5, L0779: 5, L0758: 5, L0769: 4, L0764: 4, L0777: 4, H0634: 3, L0748: 3, L0750: 3, L0731: 3, S0222: 2, L0163: 2, L0763: 2, L0772: 2, L0775: 2, L0776: 2, H0651: 2, L0749: 2.</p>	16p13.3	<p>141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 156850, 186580, 191092, 600140, 600273, 601313, 601785</p>
1967	HPTV196	636064	1977	271 - 291	4574		<p>L0809: 5, L0779: 5, L0758: 5, L0769: 4, L0764: 4, L0777: 4, H0634: 3, L0748: 3, L0750: 3, L0731: 3, S0222: 2, L0163: 2, L0763: 2, L0772: 2, L0775: 2, L0776: 2, H0651: 2, L0749: 2.</p>	16	

1968	HPVAA15	783074	1978	74 - 148	4575				2, L0759: 2, H0657: 1, S0376: 1, S0300: 1, L0622: 1, H0427: 1, H0009: 1, L0471: 1, T0006: 1, H0424: 1, H0674: 1, H0708: 1, H0135: 1, H0413: 1, S0438: 1, L0771: 1, L0768: 1, L0794: 1, L0766: 1, L0774: 1, L0375: 1, L0806: 1, L0789: 1, H0648: 1, H0521: 1, S0406: 1 and H0506: 1.	17q24	115660, 139250, 148500, 150200, 154275, 162100, 170500, 170500, 182452, 230200, 249000, 253250
1969	HPVAB20	601692	1979	48 - 158	4576				AR060: 6, AR316: 5, AR089: 4, L0439: 4, L0803: 3, H0590: 2, L0483: 2, H0163: 2, L0805: 2, S0374: 2, H0658: 2, H0696: 2, H0717: 1, S0116: 1, S0358: 1, L0717: 1, H0052: 1, H0194: 1, H0184: 1, L0738: 1, H0545: 1, S0316: 1, S0003: 1, S0364: 1, S0366: 1, S0036: 1, H0272: 1, L0638: 1, L0766: 1, L0776: 1, L0789: 1, L0664: 1, L0665: 1, H0710: 1, H0521: 1, S0013: 1, S0406: 1, L0744: 1, L0752: 1, L0758: 1, L0605: 1, S0026: 1 and H0543: 1.		
1970	HPVAB63	561955	1980	311 - 352	4577				L0776: 2, L0748: 2, H0170: 1, H0685: 1, H0580: 1, H0052: 1, S6028: 1, L0771: 1, L0775: 1, H0520: 1, S0013: 1, L0749: 1, L0777: 1 and H0543: 1.	2p24.3-p24.1	602134

							2. H0170: 1, H0556: 1, S0342: 1, H0713: 1, S0402: 1, L0414: 1, S0110: 1, S0001: 1, H0662: 1, S0356: 1, S0354: 1, S0358: 1, S0360: 1, H0729: 1, H0728: 1, H0619: 1, H0369: 1, H0549: 1, H0550: 1, H0587: 1, H0427: 1, H0036: 1, H0590: 1, H0253: 1, H0046: 1, H0012: 1, H0023: 1, S0050: 1, H0014: 1, T0010: 1, S0214: 1, H0039: 1, H0553: 1, H0674: 1, H0135: 1, H0488: 1, S0015: 1, S0438: 1, S0472: 1, H0647: 1, S0210: 1, L0520: 1, L0763: 1, L0769: 1, L0800: 1, L0644: 1, L0521: 1, L0768: 1, L0774: 1, L0775: 1, L0375: 1, L0805: 1, L0657: 1, L0636: 1, L0782: 1, L0783: 1, L0809: 1, L0528: 1, L0647: 1, L0789: 1, L0793: 1, L0532: 1, L0664: 1, S0053: 1, H0144: 1, H0725: 1, H0547: 1, H0659: 1, H0658: 1, H0660: 1, H0648: 1, S0013: 1, H0696: 1, S0037: 1, S0206: 1, L0741: 1, L0750: 1, L0752: 1, L0757: 1, H0445: 1, S0436: 1, L0605: 1, L0592: 1, L0485: 1, L0599: 1, S0026: 1, S0242: 1, H0422: 1 and S0424: 1.
							S0013: 1
							H0036: 1
						Thr-16 to Ala-27.	L0749: 3, L0748: 2, H0581: 1 and S0044: 1.
							S0346: 1, S0049: 1, H0124: 1, H0144: 1, S0044: 1, L0748: 1 and L0747: 1.
							S0051: 1, S0044: 1 and H0423: 1.
1971	HPVAF86	750951	1981	91 - 210	4578		
1972	HPWAH55	866478	1982	144 - 263	4579		
1973	HPWAO89	732157	1983	46 - 171	4580		
1974	HPWAS27	536008	1984	305 - 409	4581		
1975	HPWAT86	747520	1985	83 - 262	4582		

1976	HPWA V82	830084	1986	401 - 439	4383			L0775: 2, L0638: 1, L0803: 1, S0044: 1, L0751: 1, L0756: 1, L0759: 1 and H0668: 1.		
1977	HPWBA36	840380	1987	83 - 157	4584			AR089: 14, AR316: 12, AR060: 9 S0044: 2 and L0803: 1.		
1978	HPWTF23	843700	1988	283 - 675	4585	Val-80 to Lep-92, Ser-98 to Lys-104, Pro-111 to Pro-122.		AR089: 52, AR316: 31, AR060: 10 H0710: 28, L0659: 18, L0747: 18, H0656: 13, H0436: 10, H0271: 9, L0751: 9, S0474: 8, H0581: 8, H0179: 8, H0063: 8, L0731: 8, L0599: 8, H0650: 7, L0662: 7, L0756: 7, H0555: 6, S0354: 5, H0036: 5, H0590: 5, H0052: 5, L0770: 5, L0761: 5, S0428: 5, S0374: 5, L0439: 5, H0717: 4, H0393: 4, S0222: 4, H0156: 4, H0309: 4, S0312: 4, S0314: 4, H0090: 4, H0591: 4, L0637: 4, L0776: 4, L0783: 4, L0438: 4, L0757: 4, H0543: 4, H0716: 3, H0662: 3, H0619: 3, H0392: 3, H0575: 3, H0004: 3, H0673: 3, S0364: 3, H0135: 3, H0059: 3, H0494: 3, L0667: 3, L0764: 3, L0803: 3, L0775: 3, L0655: 3, L0809: 3, L0666: 3, H0670: 3, L0744: 3, L0750: 3, L0779: 3, L0758: 3, L0759: 3, S0436: 3, H0556: 2, H0713: 2, S0624: 2, H0341: 2, S0282: 2, H0402: 2, S0442: 2, S0376: 2, S0360: 2, H0580: 2, H0329: 2, H0728: 2, H0645: 2, H0369: 2, H0486: 2, S0280: 2, H0042: 2, H0421: 2, H0545: 2, H0457: 2, H0620: 2, H0014: 2, S0051: 2, T0010: 2, S0340: 2, H0031: 2, H0644: 2, H0383: 2.		

	H0674; 2, H0163; 2, H0651; 2; H0264; 2, H0488; 2, T0004; 2, S0438; 2, H0130; 2, H0647; 2, L0766; 2, L0517; 2, L0518; 2, L0647; 2, H0547; 2, H0660; 2, S0044; 2, S0027; 2, S0028; 2, L0748; 2, L0754; 2, L0745; 2, H0445; 2, S0434; 2, L0596; 2, L0588; 2, H0506; 2, H0170; 1, S0134; 1, L0414; 1, L0785; 1, S0212; 1, H0255; 1, S0358; 1, S0444; 1, H0637; 1, H0208; 1, S6022; 1, H0550; 1, H0609; 1, H0386; 1, H0333; 1, T0060; 1, H0427; 1, L0021; 1, L0022; 1, S0010; 1, S0346; 1, L0105; 1, H0318; 1, H0597; 1, H0150; 1, L0471; 1, H0011; 1, S0362; 1, H0373; 1, S0388; 1, H0354; 1, H0099; 1, H0594; 1, H0266; 1, H0416; 1, H0188; 1, S0318; 1, S0334; 1, H0687; 1, S0338; 1, H0252; 1, H0213; 1, H0553; 1, H0111; 1, H0617; 1, H0169; 1, T0067; 1, L0435; 1, L0564; 1, S0440; 1, H0509; 1, S0150; 1, H0646; 1, H0652; 1, L0371; 1, L0769; 1, L0771; 1, L0649; 1, L0774; 1, L0375; 1, L0651; 1, L0378; 1, L0805; 1, L0606; 1, L0657; 1, L0384; 1, L0529; 1, L0543; 1, L0793; 1, L0664; 1, S0216; 1, H0144; 1, H0723; 1, H0593; 1, H0689; 1, H0659; 1, H0672; 1, S0328; 1, H0539; 1, H0518; 1, H0521; 1, H0696; 1, H0134; 1, L0612; 1, S3012; 1, S0390; 1, S0037; 1, S3014; 1, S0032; 1, L0743; 1, L0749; 1, L0752; 1, L0755; 1, H0707; 1,
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1979	HPWTF23	844775	1989	283 - 675	4586	Val 80 to Len-92, Ser-98 to Lys-104, Pro-111 to Pro-122.	L0591: 1, L0592: 1, H0653: 1, H0136: 1 and S0412: 1. AR089: 52, AR316: 31, AR060: 10 H0710: 28, L0659: 18, L0747: 18, H0656: 13, H0436: 10, H0271: 9, L0751: 9, S0474: 8, H0581: 8, H0179: 8, H0063: 8, L0731: 8, L0599: 8, H0650: 7, L0662: 7, L0756: 7, H0555: 6, S0354: 5, H0036: 5, H0590: 5, H0052: 5, L0770: 5, L0761: 5, S0428: 5, S0374: 5, L0439: 5, H0717: 4, H0393: 4, S0222: 4, H0156: 4, H0309: 4, S0312: 4, S0314: 4, H0090: 4, H0591: 4, L0637: 4, L0776: 4, L0783: 4, L0438: 4, L0757: 4, H0543: 4, H0716: 3, H0662: 3, H0619: 3, H0392: 3, H0575: 3, H0004: 3, H0673: 3, S0364: 3, H0135: 3, H0059: 3, H0494: 3, L0667: 3, L0764: 3, L0803: 3, L0775: 3, L0655: 3, L0809: 3, L0666: 3, H0670: 3, L0744: 3, L0750: 3, L0779: 3, L0758: 3, L0759: 3, S0436: 3, H0556: 2, H0713: 2, S0624: 2, H0341: 2, S0282: 2, H0402: 2, S0442: 2, S0376: 2, S0360: 2, H0580: 2, H0329: 2, H0728: 2, H0645: 2, H0369: 2, H0486: 2, S0280: 2, H0042: 2, H0421: 2, H0545: 2, H0457: 2, H0620: 2, H0014: 2, S0051: 2, T0010: 2, S0340: 2, H0031: 2, H0644: 2, H0383: 2, H0674: 2, H0163: 2, H0551: 2, H0264: 2, H0488: 2, T0004: 2, S0438: 2, H0130: 2, H0647: 2, L0766: 2, L0517: 2, L0518: 2,		
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1980	HPWTF53	844737	1990	484 - 777	4587	Cys-64 to Lys-70.	L0647: 2, H0547: 2, H0660: 2, S0044: 2, S0027: 2, S0028: 2, L0748: 2, L0754: 2, L0745: 2, H0445: 2, S0434: 2, L0596: 2, L0588: 2, H0506: 2, H0170: 1, S0134: 1, L0414: 1, L0785: 1, S0212: 1, H0255: 1, S0358: 1, S0444: 1, H0637: 1, H0208: 1, S6022: 1, H0550: 1, H0609: 1, H0586: 1, H0333: 1, T0060: 1, H0427: 1, L0021: 1, L0022: 1, S0010: 1, S0346: 1, L0105: 1, H0318: 1, H0597: 1, H0150: 1, L0471: 1, H0011: 1, S0362: 1, H0373: 1, S0388: 1, H0354: 1, H0099: 1, H0594: 1, H0266: 1, H0416: 1, H0188: 1, S0318: 1, S0334: 1, H0687: 1, S0338: 1, H0252: 1, H0213: 1, H0553: 1, H0111: 1, H0617: 1, H0169: 1, T0067: 1, L0435: 1, L0564: 1, S0440: 1, H0509: 1, S0150: 1, H0646: 1, H0652: 1, L0371: 1, L0769: 1, L0771: 1, L0649: 1, L0774: 1, L0375: 1, L0651: 1, L0378: 1, L0805: 1, L0606: 1, L0657: 1, L0384: 1, L0529: 1, L0543: 1, L0793: 1, L0664: 1, S0216: 1, H0144: 1, H0723: 1, H0593: 1, H0689: 1, H0659: 1, H0672: 1, S0328: 1, H0539: 1, H0518: 1, H0521: 1, H0696: 1, H0134: 1, L0612: 1, S012: 1, S0390: 1, S0037: 1, S014: 1, S0032: 1, L0743: 1, L0749: 1, L0752: 1, L0755: 1, H0707: 1, L0591: 1, L0592: 1, H0653: 1, H0136: 1 and S0412: 1.
							H0650: 1, L0785: 1, S0282: 1, H0586: 1, H0318: 1, H0383:

1981	HPXAB56	638157	1991	73 - 165	4588	Lys-22 to Gly-29.	1, H0264: 1, L0804: 1, L0805: 1, L0776: 1, L0809: 1, L0789: 1, H0648: 1 and H0008: 1.		
1982	HPZAB75	842154	1992	42 - 152	4589	Ala-22 to Asp-33.	H0313: 1 and S0053: 1. L0747: 5, S0430: 1, H0331: 1, L0640: 1, L0783: 1, L0664: 1, H0648: 1, S0168: 1 and L0749: 1.	1q32	114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 600105, 600759, 601494, 601975
1983	HRAAB26	693244	1993	8 - 85	4590	Asn-19 to Ser-25.	H0431: 1 and H0555: 1.		
1984	HRAAC36	798104	1994	274 - 453	4591		AR089: 1, AR316: 1, AR060: 1 H0555: 1, H0576: 1, L0779: 1 and H0422: 1.		
1985	HRAAF59	847086	1995	103 - 252	4592	Thr-36 to Trp-44.	H0555: 1	7	
1986	HRAAG89	621271	1996	54 - 149	4593	Pro-2 to Glu-7.	L0775: 3, L0666: 3, L0749: 3, L0771: 2, H0615: 2, S0330: 2, L0747: 2, L0758: 2, H0624: 1, S0376: 1, H0587: 1, L0021: 1, L0105: 1, L0455: 1, H0494: 1, L0771: 1, L0662: 1, L0803: 1, L0375: 1, L0784: 1, L0809: 1, L0792: 1, L0663: 1, L0664: 1, L0665: 1, H0593: 1, H0658: 1, H0648: 1, H0555: 1 and L0779: 1.		
1987	HRAAO40	664500	1997	95 - 205	4594		H0555: 1		100730, 118800, 123660, 135600, 157655, 186860, 201460, 205100, 262000, 601277, 601318
1988	HRAAZ12	834637	1998	3201 - 3320	4595	Pro-26 to Gly-34.	L0740: 28, L0777: 15, L0731: 15, L0748: 14, L0747: 10, L0439: 8, L0750: 8, L0749: 7, L0756: 7, L0754: 6, H0622: 5, L0792: 5, H0090: 4, L0769: 4, H0135: 3, S0344: 3, L0662: 3, L0804: 3, L0805: 3.	2q34	

1989	HRABA19	621384	1999	175 - 189	4596			L0438: 3, L0597: 3, S0046: 2, H0333: 2, H0013: 2, H0427: 2, H0266: 2, H0551: 2, H0623: 2, L0761: 2, L0768: 2, L0803: 2, L0806: 2, L0789: 2, L0666: 2, H0547: 2, H0521: 2, H0522: 2, H0555: 2, S0206: 2, L0779: 2, L0759: 2, L0588: 2, L0599: 2, H0624: 1, H0663: 1, S0360: 1, S0045: 1, H0393: 1, S0278: 1, H0437: 1, H0431: 1, T0039: 1, H0575: 1, H0050: 1, L0471: 1, H0620: 1, S0031: 1, H0267: 1, H0039: 1, H0030: 1, H0316: 1, H0412: 1, H0056: 1, S0112: 1, L0564: 1, H0561: 1, H0641: 1, S0142: 1, L0770: 1, L0772: 1, L0800: 1, L0648: 1, L0794: 1, L0381: 1, L0375: 1, L0776: 1, L0807: 1, L0809: 1, L0790: 1, L0791: 1, H0144: 1, H0693: 1, L0352: 1, S0330: 1, S0378: 1, H0134: 1, L0741: 1, L0786: 1, S0260: 1, L0592: 1, L0581: 1, H0543: 1 and H0506: 1.
	HRABA19	621384	1999	175 - 189	4596			H0644: 1, L0646: 1, H0555: 1, L0779: 1 and L0758: 1.
1990	HRABP28	823344	2000	224 - 331	4597			H0264: 1, L0523: 1, H0555: 1, L0748: 1 and H0445: 1.
1991	HRABU56	621381	2001	268 - 420	4598	Lys-44 to Gly-50.		H0373: 1, L0807: 1, L0647: 1, H0693: 1, H0547: 1, H0555: 1, S0028: 1, L0748: 1, L0749: 1 and L0759: 1.
1992	HRABZ80	562230	2002	207 - 333	4599			AR060: 2, AR316: 2, AR089: 2
	HRACB01	637647	2003	150 - 215	4600			H0555: 1, S3014: 1, L0748: 1, L0749: 1 and H0423: 1.
1993	HRACB01	637647	2003	150 - 215	4600			AR089: 2, AR316: 1, AR060: 1

1994	HRAC139	840461	2004	124 - 216	4601				L0749: 2 and H0555: 1. H0555: 1		
1995	HRADU15	801926	2005	304 - 444	4602	Arg-7 to Arg-14, Tyr-38 to Glu-43.			AR089: 6, AR316: 4, AR060: 3 S0476: 1, H0555: 1, L0596: 1 and L0362: 1.		
1996	HRDAH04	651356	2006	147 - 221	4603				H0265: 3, H0013: 1, H0124: 1 and L0748: 1.		
1997	HRDBA20	637709	2007	87 - 224	4604				AR089: 9, AR316: 7, AR060: 5 H0124: 2 and L0577: 1.		
1998	HRDBD32	637710	2008	86 - 223	4605				AR089: 4, AR316: 4, AR060: 3 H0124: 2 and L0577: 1.		
1999	HRDBL01	631169	2009	248 - 364	4606				AR089: 16, AR316: 13, AR060: 10 H0124: 1, H0100: 1 and S0112: 1.		
2000	HRDDM85	799542	2010	281 - 334	4607				AR089: 16, AR316: 12, AR060: 9 H0124: 1		
2001	HRDDS22	702017	2011	235 - 369	4608				AR089: 24, AR316: 21, AR060: 18 L0747: 14, L0748: 12, S0010: 10, L0439: 9, L0438: 8, L0740: 8, S0222: 7, L0777: 7, L0731: 7, H0575: 5, H0318: 5, H0441: 4, H0251: 4, L0766: 4, L0666: 4, L0741: 4, L0742: 4, L0591: 4, L0599: 4, H0052: 3, S0051: 3, T0010: 3, S0036: 3, L0763: 3, L0755: 3, S0031: 3, S6024: 2, H0597: 2, H0059: 2, L0770: 2, L0667: 2, L0775: 2, L0659: 2, L0809: 2, L0745: 2, L0750: 2, L0752: 2, L0758: 2, L0589: 2, S0424: 2, H0170: 1, H0171: 1, H0265: 1, H0650: 1, L0416: 1, S0116: 1, S0001: 1.		

2002	HRDEJ86	695755	2012	203 - 286	4609	Phe-18 to Ala-23.	1, H0254: 1, L0005: 1, S0360: 1, L0717: 1, S6014: 1, S0005: 1, H0574: 1, H0632: 1, H0599: 1, S0346: 1, H0309: 1, H0123: 1, L0471: 1, H0014: 1, H0510: 1, S6028: 1, L0051: 1, L0483: 1, L0455: 1, H0124: 1, H0068: 1, S0366: 1, H0163: 1, H0268: 1, H0100: 1, T0042: 1, H0509: 1, S0150: 1, H0130: 1, L0369: 1, L0638: 1, L0372: 1, L0764: 1, L0771: 1, L0662: 1, L0650: 1, L0375: 1, L0651: 1, L0806: 1, L0776: 1, L0532: 1, H0144: 1, H0547: 1, H0659: 1, H0658: 1, H0670: 1, H0648: 1, S3014: 1, S0027: 1, L0744: 1, L0780: 1, L0757: 1, L0759: 1, L0581: 1, S0011: 1, H0423: 1 and H0008: 1.		
							AR089: 36, AR316: 27, AR060: 18 L0745: 14, L0519: 3, S0222: 2, H0144: 2, L0746: 2, L0589: 2, L0604: 2, H0265: 1, S0212: 1, H0125: 1, S0356: 1, S0444: 1, S0360: 1, T0008: 1, S0007: 1, H0619: 1, L0717: 1, H0549: 1, H0438: 1, T0060: 1, H0013: 1, H0575: 1, H0618: 1, S0010: 1, H0251: 1, H0009: 1, H0050: 1, H0028: 1, H0252: 1, H0030: 1, H0032: 1, H0124: 1, H0063: 1, T0004: 1, H0625: 1, H0132: 1, S0002: 1, L0638: 1, L0637: 1, L0773: 1, L0662: 1, L0561: 1, L0559: 1, L0663: 1, H0520: 1, H0547: 1, H0672: 1, H0555: 1, S3014: 1, S0028: 1, S0032: 1, L0740: 1, L0755: 1, S0031:		

									1, S0436: 1 and H0543: 1. H0124: 1			
				67 - 126	4610				AR089: 28, AR316: 25, AR060: 22 L0758: 6, L0766: 5, L0749: 5, L0750: 5, H0622: 4, L0748: 4, H0124: 3, L0731: 3, S0134: 2, S0420: 2, H0013: 2, H0327: 2, H0687: 2, H0169: 2, L0761: 2, L0806: 2, H0658: 2, L0747: 2, L0596: 2, L0599: 2, T0049: 1, S0360: 1, H0619: 1, H0351: 1, L0622: 1, H0427: 1, H0318: 1, H0581: 1, H0051: 1, H0604: 1, H0031: 1, H0617: 1, H0316: 1, H0090: 1, H0264: 1, H0488: 1, H0412: 1, H0100: 1, S0438: 1, S0440: 1, L0770: 1, L0637: 1, L0764: 1, L0771: 1, L0773: 1, L0803: 1, L0659: 1, L0789: 1, L0663: 1, H0547: 1, H0684: 1, H0672: 1, S0380: 1, H0436: 1, L0439: 1, L0754: 1, L0779: 1, H0343: 1, L0592: 1, L0603: 1, H0543: 1 and H0422: 1. H0124: 5, L0367: 1, L0748: 1 and L0749: 1.	20		
2003	HRDEQ34	825181	2013						AR089: 11, AR316: 9, AR060: 7 H0124: 1 and H0134: 1. L0766: 7, L0777: 4, H0599: 3, L0751: 3, L0759: 3, H0663: 2, S0360: 2, S0046: 2, H0494: 2, L0769: 2, L0657: 2, S0126: 2, H0658: 2, L0755: 2, L0758: 2, L0588: 2, L0605: 2, H0265: 1, T0049: 1, H0657: 1, S0418: 1, S0420: 1, S0354: 1, S0358: 1, S0376: 1, H0675: 1, S0045: 1.			
2004	HRDFE30	750872	2014	1193 - 1318	4611							
2005	HRDFT83	606799	2015	51 - 155	4612							
2006	HRGCA01	589970	2016	75 - 155	4613							
2007	HRGCA06	866189	2017	74 - 487	4614							

2008	HRGSE38	898233	2018	50 - 370	4615	Gly-24 to Gly-36, Gly-48 to Arg-57, Ala-61 to Gln-66, Lys-82 to Lys-98.	<p>1, H0645: 1, H0370: 1, H0618: 1, S0049: 1, T0115: 1, H0530: 1, H0375: 1, H0286: 1, H0181: 1, H0135: 1, H0412: 1, T0042: 1, H0633: 1, S0144: 1, S0002: 1, H0529: 1, L0763: 1, L0770: 1, L0638: 1, L0639: 1, L0627: 1, L0773: 1, L0768: 1, L0387: 1, L0774: 1, L0806: 1, L0776: 1, L0519: 1, L0663: 1, L0665: 1, H0519: 1, H0639: 1, S0380: 1, S0152: 1, H0521: 1, H0696: 1, H0134: 1, H0555: 1, S0032: 1, L0589: 1, S0026: 1, H0653: 1, H0667: 1, H0542: 1 and S0424: 1.</p>	lpter-p12
2009	HRLAT43	795038	2019	158 - 223	4616		H0396: 1	
2010	HRLME03	610614	2020	162 - 272	4617	Ser-21 to Phe-32.	H0480: 1	
2011	HROAN20	732148	2021	254 - 331	4618		S0045: 1, H0316: 1 and	

2012	HROAP64	835467	2022	181 - 288	4619		L0373: 1. AR060: 8, AR316: 7, AR089: 6 H0316: 1		
2013	HROAS35	827304	2023	152 - 247	4620		AR060: 838, AR316: 546, AR089: 233 H0316: 1		
2014	HROAY16	827305	2024	242 - 337	4621		AR060: 1 H0316: 1		
2015	HROBI10	836368	2025	108 - 281	4622		AR089: 11, AR316: 11, AR060: 11		
2016	HROBW46	801952	2026	395 - 529	4623		H0581: 1, H0598: 1 and L0662: 1.		
2017	HRODG86	834320	2027	320 - 364	4624		AR060: 7, AR316: 6, AR089: 4		
2018	HRSAL26	637654	2028	82 - 174	4625	Thr-22 to Lys-31.	H0395: 1, L0762: 1, L0775: 1 and L0790: 1.		
2019	HRTAE88	822964	2029	266 - 361	4626		T0008: 1	3pter-3p25.1	176830, 176830, 182601, 229800, 602134
2020	HRTAP63	780698	2030	959 - 1087	4627	Asn-2 to Trp-13.	AR089: 26, AR316: 21, AR060: 17 L0758: 15, L0731: 13, L0752: 12, L0755: 9, L0766: 8, H0641: 7, S0474: 6, H0038: 6, H0521: 6, L0439: 6, H0179: 5, L0662: 5, L0655: 5, L0748: 5, L0777: 5, L0759: 5, H0638: 4, H0581: 4, H0457: 4, L0775: 4, L0809: 4, L0742: 4, L0754: 4, L0749: 4, L0757: 4, S0222: 3, L0666: 3, L0663: 3, S0053: 3, H0522: 3, H0436: 3, L0740: 3, L0750: 3, S0442: 2, H0580: 2, H0156: 2, L0021: 2, S0010: 2, H0014: 2, S0003: 2, S0214: 2, H0031: 2, H0090: 2, H0623: 2, S0002: 2, L0598: 2, L0764: 2, L0768: 2, L0774: 2, L0806:		

						2, L0653: 2, L0657: 2, L0659: 2, H0144: 2, H0539: 2, H0710: 2, S0027: 2, L0747: 2, L0779: 2, S0434: 2, L0592: 2, S0026: 2, H0170: 1, T0002: 1, H0717: 2, S0114: 1, S0218: 1, H0650: 1, H0657: 1, S0212: 1, S0418: 1, S0420: 1, S0408: 1, T0008: 1, H0722: 1, S0007: 1, S0046: 1, H0619: 1, H0351: 1, H0406: 1, S0278: 1, H0601: 1, H0586: 1, H0013: 1, H0437: 1, H0599: 1, H0590: 1, H0421: 1, S0049: 1, H0052: 1, H0545: 1, H0373: 1, H0510: 1, T0066: 1, H0271: 1, L0483: 1, T0006: 1, H0628: 1, H0169: 1, H0674: 1, H0163: 1, H0591: 1, H0616: 1, H0264: 1, H0272: 1, H0412: 1, H0494: 1, S0015: 1, S0144: 1, UNKNW: 1, L0520: 1, L0637: 1, L0761: 1, L0667: 1, L0772: 1, L0641: 1, L0648: 1, L0521: 1, L0794: 1, L0649: 1, L0803: 1, L0805: 1, L0783: 1, L0384: 1, L0793: 1, L0664: 1, L0665: 1, S0052: 1, S0428: 1, S0216: 1, H0520: 1, S0126: 1, H0658: 1, H0670: 1, H0666: 1, H0672: 1, H0651: 1, L0355: 1, S0328: 1, S0406: 1, H0555: 1, S0032: 1, L0744: 1, L0745: 1, L0780: 1, L0588: 1, L0594: 1, L0362: 1, L0366: 1 and H0422: 1.
2021	HRTAR24	601378	2031	220 - 393	4628	AR060: 5, AR316: 4, AR089: 2 T0008: 1 and S0428: 1.
2022	HSAAN03	599334	2032	193 - 393	4629	S0418: 1 and T0039: 1
2023	HSAAS05	703244	2033	115 - 231	4630	T0039: 1, H0318: 1, S0049: 1, H0309: 1, L0783: 1, L0748: 1

2024	HSAWA13	821334	2034	246 - 314	4631		1 and H0445: 1. L0747: 6, L0766: 5, L0439: 5, S0410: 4, L0749: 4, L0756: 4, L0758: 4, S0408: 3, L0662: 3, L0803: 3, L0750: 3, L0771: 3, S0116: 2, S0444: 2, L0598: 2, L0763: 2, L0521: 2, L0804: 2, L0774: 2, L0775: 2, L0659: 2, S0374: 2, H0670: 2, L0743: 2, L0731: 2, H0624: 1, S0212: 1, S0418: 1, S0354: 1, H0580: 1, S0476: 1, S0222: 1, S6014: 1, H0441: 1, H0486: 1, T0039: 1, H0581: 1, H0309: 1, H0327: 1, H0051: 1, S0388: 1, S0051: 1, T0010: 1, H0375: 1, S0003: 1, L0483: 1, H0031: 1, L0142: 1, H0068: 1, H0040: 1, H0412: 1, H0509: 1, H0529: 1, L0761: 1, L0373: 1, L0372: 1, L0773: 1, L0375: 1, L0657: 1, L0809: 1, L0666: 1, L0438: 1, H0658: 1, H0521: 1, S0028: 1, L0744: 1, L0755: 1, L0608: 1, L0366: 1, S0194: 1 and S0196: 1. T0039: 1	15	
2025	HSABA15	827064	2035	110 - 241	4632	Thr-37 to Arg-43.	AR060: 5, AR316: 4, AR089: 3 H0457: 6, L0766: 6, L0794: 2, L0665: 2, L0439: 2, L0755: 2, H0295: 1, L0717: 1, H0600: 1, H0386: 1, T0039: 1, H0250: 1, H0553: 1, H0674: 1, H0100: 1, H0494: 1, L0770: 1, L0769: 1, L0768: 1, L0803: 1, L0805: 1, L0606: 1, L0788: 1, L0666: 1, H0682: 1, L0748: 1, L0749: 1, L0758: 1, H0445: 1 and L0596: 1.		
2026	HSABG81	753408	2036	466 - 594	4633				
2027	HSATA50	562007	2037	211 - 264	4634		S0114: 2, S0045: 1, H0318: 1		

2028	HSATA61	801927	2038	132 - 230	4635	and H0251: 1. AR060: 7, AR316: 6, AR089: 5 S0410: 9, L0794: 4, L0779: 4, S0360: 3, L0752: 3, L0759: 3, H0295: 2, H0545: 2, L0742: 2, L0747: 2, H0713: 1, H0294: 1, S0114: 1, H0484: 1, H0483: 1, H0661: 1, H0402: 1, S0420: 1, S0358: 1, S0444: 1, S0007: 1, H0441: 1, H0036: 1, S0049: 1, H0031: 1, H0553: 1, H0181: 1, H0617: 1, H0334: 1, S0440: 1, L0770: 1, L0769: 1, L0803: 1, L0804: 1, L0809: 1, L0791: 1, H0593: 1, H0660: 1, S0037: 1, S0027: 1, S0028: 1, L0740: 1, L0786: 1, S0106: 1 and S0436: 1.		
2029	HSATG66	824903	2039	1815 - 1877	4636	AR089: 5, AR316: 5, AR060: 5 L0731: 17, L0766: 15, H0521: 15, H0457: 13, L0740: 9, H0486: 8, S0358: 6, S0474: 6, L0747: 6, H0423: 6, H0581: 5, L0754: 5, H0638: 4, L0779: 4, H0445: 4, S0134: 3, S0045: 3, S0374: 3, L0757: 3, L0485: 3, H0422: 3, S0040: 2, H0583: 2, S0360: 2, H0586: 2, H0574: 2, H0575: 2, H0050: 2, H0014: 2, H0328: 2, H0316: 2, S0036: 2, H0090: 2, S0422: 2, L0369: 2, L0764: 2, L0662: 2, L0792: 2, L0663: 2, L0665: 2, L0565: 2, H0519: 2, S0328: 2, H0518: 2, L0750: 2, L0758: 2, H0668: 2, H0624: 1, H0170: 1, H0171: 1, T0002: 1, S0114: 1, H0650: 1, H0657: 1, H0656: 1, H0341: 1.	3q25	106165, 222900, 276902

2030	HSAT191	838829	2040	105 - 308	4637		1, S0282: 1, H0669: 1, H0458: 1, H0459: 1, S0356: 1, S0132: 1, H0411: 1, S0222: 1, H0600: 1, H0592: 1, H0587: 1, T0039: 1, H0250: 1, S0280: 1, H0122: 1, H0004: 1, L0105: 1, H0318: 1, H0421: 1, H0196: 1, H0251: 1, H0046: 1, H0439: 1, L0471: 1, H0057: 1, H0015: 1, H0373: 1, H0083: 1, H0354: 1, H0266: 1, S0250: 1, S0003: 1, S0214: 1, H0252: 1, H0615: 1, L0483: 1, H0628: 1, H0598: 1, H0163: 1, H0591: 1, H0062: 1, H0551: 1, T0041: 1, H0560: 1, S0466: 1, H0130: 1, H0641: 1, H0646: 1, H0649: 1, S0210: 1, S0002: 1, H0695: 1, L0646: 1, L0648: 1, L0794: 1, L0803: 1, L0774: 1, L0784: 1, L0805: 1, L0655: 1, L0607: 1, L0527: 1, L0657: 1, L0659: 1, L0783: 1, L0809: 1, L0666: 1, L0664: 1, S0052: 1, S0428: 1, H0144: 1, H0365: 1, H0435: 1, H0651: 1, S0330: 1, S0380: 1, S0350: 1, H0436: 1, S0028: 1, L0748: 1, L0749: 1, L0756: 1, L0777: 1, S0260: 1, L0590: 1, L0591: 1, H0667: 1 and L0697: 1.	18q21	601941, 602080, 602397, 602397
2031	HSATR50	826398	2041	217 - 321	4638	Gln-2 to Gln-8.	S0114: 1, S0360: 1 and H0659: 1.	7q31.1-q31.3	126650, 126650, 150240, 164160, 180105, 190900, 222800, 246900
2032	HSAT182	566784	2042	166 - 255	4639		S0114: 2		
2033	HSATW19	637658	2043	185 - 196	4640		S0114: 1 and H0135: 1.		
2034	HSATW67	604938	2044	37 - 135	4641	Gln-27 to Cys-32.	S0114: 1, H0580: 1, H0431: 1.		

2035	HSA7202	490895	2045	246-257	4642		1, L0794: 1 and H0658: 1; S0022: 3, H0265: 1 and S0114: 1.		
2036	HSAUA95	604940	2046	62-178	4643	Leu-20 to Gly-25.	AR060: 8, AR316: 6, AR089: 5 L0754: 3, S0114: 1 and L0803: 1.		
2037	HSAUB89	600369	2047	161-271	4644		AR313: 12, AR226: 9, AR192: 9, AR060: 8, AR244: 8, AR186: 8, AR184: 8, AR293: 7, AR089: 7, AR205: 7, AR312: 7, AR182: 7, AR052: 7, AR271: 6, AR206: 6, AR299: 6, AR185: 6, AR243: 6, AR246: 6, AR238: 6, AR204: 6, AR183: 6, AR275: 6, AR269: 6, AR202: 6, AR241: 6, AR263: 5, AR249: 5, AR055: 5, AR053: 5, AR270: 5, AR273: 5, AR229: 5, AR198: 5, AR248: 5, AR218: 5, AR096: 5, AR316: 5, AR274: 5, AR240: 5, AR267: 5, AR227: 5, AR213: 5, AR300: 5, AR237: 5, AR292: 5, AR282: 5, AR247: 4, AR253: 4, AR061: 4, AR290: 4, AR296: 4, AR258: 4, AR219: 4, AR033: 4, AR286: 4, AR233: 4, AR039: 4, AR175: 4, AR294: 4, AR285: 4, AR104: 4, AR231: 3, AR268: 3, AR177: 3, AR259: 3.		

2038	HSAUI53	866191	2048	22 - 141	4645		AR277: 3, AR309: 3, AR234: 3, AR251: 3, AR298: 3, AR265: 3, AR295: 3, AR291: 3, AR284: 3, AR289: 3, AR280: 3, AR283: 3, AR256: 2, AR232: 2, AR179: 2, AR310: 2, AR314: 2, AR266: 1, AR315: 1 H0486: 12, L0794: 9, L0605: 7, L0655: 5, L0804: 4, H0318: 3, L0663: 3, L0747: 3, H0483: 2, L0809: 2, H0445: 2, S0114: 1, H0583: 1, H0254: 1, S0358: 1, S0376: 1, S0444: 1, S0408: 1, H0722: 1, H0370: 1, H0004: 1, H0264: 1, S0294: 1, L0767: 1, L0768: 1, L5568: 1, L0775: 1, L0805: 1, L0791: 1, L0665: 1, H0689: 1, H0672: 1, S0004: 1, L0749: 1, L0777: 1, L0759: 1, H0444: 1, S0458: 1 and H0506: 1.	
2039	HSAUV74	866193	2049	169 - 219	4646		AR089: 35, AR316: 25, AR060: 15 S0114: 1 H0584: 31, L0779: 10, L0748: 7, L0758: 7, L0743: 6, S0356: 5, L0744: 5, L0747: 5, S0007: 4, H0052: 4, H0150: 4, L0769: 4, L0751: 4, H0556: 3, L0776: 3, L0665: 3, H0542: 3, H0167: 2, H0294: 2, H0656: 2, H0370: 2, H0599: 2, H0618: 2, H0178: 2, L0157: 2, H0594: 2, H0617: 2, T0041: 2, H0494: 2, S0150: 2, L0772: 2, L0764: 2, L0648: 2, L0662: 2, L0783: 2, S0380: 2, L0439: 2, L0755: 2.	

							L0604: 2, L0593: 2, H0624: 1, H0171: 1, S0040: 1, S0114: 1, H0657: 1, H0381: 1, S0116: 1, H0306: 1, H0402: 1, S0358: 1, S0408: 1, S0045: 1, S0046: 1, H0411: 1, S0278: 1, S0222: 1, H0587: 1, H0333: 1, H0574: 1, H0486: 1, H0575: 1, H0253: 1, T0048: 1, H0546: 1, H0045: 1, H0123: 1, H0012: 1, H0024: 1, S0050: 1, H0373: 1, L0163: 1, H0051: 1, H0510: 1, H0292: 1, S0214: 1, H0688: 1, T0006: 1, H0417: 1, H0166: 1, H0674: 1, H0316: 1, H0040: 1, H0063: 1, H0623: 1, H0059: 1, H0102: 1, H0100: 1, S0112: 1, H0625: 1, H0641: 1, H0652: 1, S0002: 1, S0426: 1, H0529: 1, L0763: 1, L0761: 1, L0667: 1, L0373: 1, L0646: 1, L0644: 1, L0771: 1, L0768: 1, L0766: 1, L0650: 1, L0774: 1, L0775: 1, L0806: 1, L0657: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, S0374: 1, T0068: 1, H0682: 1, H0435: 1, H0539: 1, H0522: 1, S0013: 1, S0044: 1, H0555: 1, L0742: 1, L0777: 1, L0759: 1, H0445: 1, L0686: 1, L0592: 1, S0011: 1, H0136: 1, H0008: 1 and H0352: 1.
2040	HSAUX39	823161	2050	98 - 205	4647		S0114: 1
2041	HSVA58	866194	2051	376 - 399	4648		H0171: 2, S0114: 1, H0657: 1, H0575: 1 and S0308: 1.
2042	HSAVES2	600370	2052	179 - 247	4649		S0114: 1, H0389: 1, H0637: 1 and H0635: 1.
2043	HSAVH32	603367	2053	63 - 158	4650	Met-1 to Pro-7.	S0114: 1
2044	HSAVM49	800279	2054	236 - 313	4651	Phe-11 to Asp-25.	AR060: 6, AR235: 6.

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2049	HSAY92	606808	2059	100 - 126	4656		L0509: 2, L0655: 2, H0144: 2; S0374: 2, H0435: 2, H0658: 2; H0436: 2, L0748: 2, L0740: 2; L0754: 2, L0755: 2, L0591: 2; L0581: 2, L0601: 2, H0667: 2; S0424: 2, T0002: 1, H0686: 1; H0685: 1, H0713: 1, S0114: 1; T0049: 1, H0656: 1, L0415: 1; S0212: 1, H0661: 1, H0663: 1; H0306: 1, L0481: 1, H0638: 1; H0125: 1, S0356: 1, S0442: 1; S0358: 1, S0444: 1, H0393: 1; S0300: 1, L0717: 1, H0411: 1; S0222: 1, H0438: 1, H0587: 1; H0333: 1, L0623: 1, T0039: 1; L0021: 1, H0318: 1, H0581: 1; H0597: 1, H0546: 1, H0024: 1; S0051: 1, H0416: 1, S0250: 1; H0428: 1, H0181: 1, H0617: 1; H0674: 1, H0623: 1, S0386: 1; H0130: 1, H0646: 1, H0538: 1; S0422: 1, L0598: 1, L0505: 1; L0502: 1, L0506: 1, L0503: 1; L0631: 1, L0500: 1, L0761: 1; L0646: 1, L0662: 1, L0767: 1; L0387: 1, L0649: 1, L0549: 1; L0805: 1, L0527: 1, L0659: 1; L0542: 1, L0518: 1, L0783: 1; L0530: 1, L0647: 1, L0789: 1; L0792: 1, L4508: 1, H0697: 1; H0703: 1, L0438: 1, S0126: 1; H0672: 1, H0522: 1, H0134: 1; S0406: 1, S3012: 1, L0439: 1; L0756: 1, L0779: 1, L0758: 1; L0682: 1, L0480: 1, L0592: 1; L0595: 1, S0026: 1, H0136: 1; S0192: 1, H0423: 1 and H0352: 1.	1
							AR204: 5, AR246: 5; AR194: 5, AR263: 5;	

2050	HSVZ05	690151	2060	653 - 694	4657		AR310: 4, AR186: 4, AR275: 4, AR206: 4, AR055: 3, AR060: 3, AR267: 3, AR309: 3, AR274: 3, AR270: 3, AR052: 3, AR205: 3, AR053: 3, AR185: 3, AR282: 3, AR268: 3, AR213: 2, AR273: 2, AR202: 2, AR182: 2, AR300: 2, AR265: 2, AR061: 2, AR313: 2, AR277: 2, AR243: 2, AR266: 2, AR312: 2, AR244: 2, AR316: 2, AR296: 2, AR104: 2, AR290: 2, AR283: 2, AR269: 2, AR286: 2, AR033: 2, AR089: 2, AR192: 1, AR289: 1, AR039: 1, AR294: 1, AR183: 1, AR298: 1, AR177: 1, AR293: 1, AR247: 1, AR251: 1, AR299: 1, AR291: 1, S0114: 1, S0010: 1, H0264: 1 and L0766: 1.	
							AR089: 60, AR316: 43, AR060: 27 S0114: 1, H0357: 1 and L0523: 1.	
2051	HSAB58	738018	2061	121 - 270	4658		S0114: 1	
2052	HSABH36	581087	2062	101 - 190	4659		S0114: 1	
2053	HSABW20	606840	2063	126 - 212	4660		S0114: 1	
2054	HSABW74	866195	2064	223 - 243	4661		AR089: 33, AR316: 31, AR060: 29 L0744: 11, S0007: 10, H0617: 10, L0747: 9, H0673: 8, H0597: 6, L0809: 6, H0683:	17

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									1, L0378: 1, L0806: 1, L0658: 1, L0659: 1, L0518: 1, L0783: 1, L0788: 1, S0053: 1, H0691: 1, H0519: 1, S0126: 1, H0689: 1, H0660: 1, S0330: 1, H0696: 1, S0404: 1, H0576: 1, S3014: 1, S0206: 1, L0742: 1, L0743: 1, L0749: 1, L0752: 1, H0445: 1, L0589: 1, L0592: 1, L0608: 1, H0422: 1, H0008: 1 and H0293: 1.
2055	HSAXW370	872498	2065	1363 - 1536	4662		Gly-50 to Asp-57.		AR205: 5, AR207: 4, AR161: 3, AR217: 3, AR252: 3, AR169: 3, AR215: 2, AR282: 2, AR225: 2, AR053: 2, AR274: 2, AR089: 2, AR198: 2, AR162: 2, AR171: 1, AR213: 1, AR293: 1, AR165: 1, AR264: 1, AR286: 1, AR183: 1, AR311: 1, AR060: 1, L0794: 5, L0766: 4, S0003: 2, L0747: 2, L0777: 2, L0591: 2, L0604: 2, H0556: 1, S0114: 1, H0657: 1, S0356: 1, H0619: 1, H0408: 1, H0591: 1, T0041: 1, L0520: 1, L0803: 1, H0547: 1, H0539: 1, S0152: 1, L0779: 1, L0758: 1, H0543: 1 and H0422: 1.
2056	HSAXC22	606842	2066	59 - 154	4663				S0114: 1
2057	HSAXI10	598726	2067	104 - 313	4664		Met-1 to Gly-6, Pro-32 to Ser-37, Ser-57 to Glu-62.		S0114: 1, S0376: 1, L0369: 1, L0527: 1, L0663: 1, H0444: 1 and L0599: 1.
2058	HSAXL49	606826	2068	86 - 115	4665				S0114: 1
2059	HSAXL82	566801	2069	164 - 286	4666				S0114: 1
2060	HSAXN57	604946	2070	90 - 152	4667				L0749: 2, S0114: 1, L0520: 1

2061	HSAX045	812767	2071	260 - 364	4668	Ser-28 to Arg-34.	AR060: 17, AR316: 13, AR089: 8 S0114: 1	and L0805: 1.		
2062	HSAXS06	668260	2072	158 - 268	4669		H0683: 1, S0114: 1, S0134: 1 and S0218: 1.			
2063	HSAXS22	608308	2073	20 - 127	4670		S0114: 1			
2064	HSAY124	608642	2074	151 - 339	4671		S0114: 2			
2065	HSAY082	824712	2075	139 - 264	4672	Lys-33 to His-41.	S0114: 1, S0134: 1 and H0156: 1.			
2066	HSAYR62	751035	2076	1900 - 1971	4673		AR089: 6, AR316: 6, AR060: 6 L0438: 14, L0748: 14, L0439: 9, L0731: 8, H0556: 7, L0740: 6, L0750: 6, L0752: 6, H0013: 5, L0747: 5, T0082: 4, H0040: 4, L0662: 4, H0144: 4, H0591: 3, H0063: 3, L0763: 3, L0764: 3, L0742: 3, L0757: 3, L0758: 3, H0171: 2, S0356: 2, S0360: 2, S0046: 2, L0717: 2, H0411: 2, H0635: 2, S0010: 2, H0023: 2, H0135: 2, H0272: 2, S0370: 2, L0598: 2, L0769: 2, L0774: 2, L0665: 2, S0330: 2, S0136: 2, L0745: 2, H0445: 2, S0242: 2, H0423: 2, H0624: 1, H0265: 1, H0685: 1, S0114: 1, S0134: 1, H0583: 1, H0650: 1, H0657: 1, H0656: 1, H0341: 1, S0282: 1, H0662: 1, H0305: 1, T0008: 1, S0132: 1, H0619: 1, H0351: 1, S0222: 1, H0370: 1, H0587: 1, H0497: 1, H0331: 1, H0590: 1, H0618: 1, S0346: 1, H0052: 1, H0596: 1, H0051: 1, H0510: 1, H0271: 1, S0003: 1, T0006: 1, H0030: 1, L0055: 1, H0674: 1, H0316: 1, H0090: 1.			

2067	HSABP90	793733	2077	136 - 282	4674			H0623: 1, H0059: 1, S0464: 1, S0438: 1, H0130: 1, S0426: 1, L0762: 1, L0770: 1, L0772: 1, L0646: 1, L0765: 1, L0771: 1, L0363: 1, L0767: 1, L0766: 1, L0560: 1, L0803: 1, L0775: 1, L0659: 1, L0809: 1, L0791: 1, L0666: 1, L0663: 1, L0664: 1, H0520: 1, H0547: 1, H0690: 1, H0659: 1, H0539: 1, S0152: 1, S3014: 1, L0749: 1, L0777: 1, L0755: 1, S0260: 1, L0891: 1, H0667: 1 and S0196: 1.		
2068	HSBA147	842694	2078	173 - 286	4675			AR060: 7, AR316: 5, AR089: 3 S0114: 1 L0754: 8, S0408: 5, L0770: 4, L0662: 4, H0657: 3, L0766: 3, L0040: 2, S0051: 2, L0598: 2, H0630: 1, S0442: 1, H0329: 1, S0222: 1, L0586: 1, H0156: 1, H0581: 1, H0052: 1, H0546: 1, H0046: 1, H0570: 1, H0014: 1, S0388: 1, H0553: 1, H0641: 1, L0803: 1, L0804: 1, L0774: 1, L0651: 1, S0148: 1, H0547: 1, S0126: 1, H0522: 1, H0696: 1, L0604: 1, H0543: 1, H0423: 1 and H0422: 1.	14q22.1-q22.3	112262, 182600, 182870, 182870, 182870, 600225, 600225
2069	HSDB190	853376	2079	218 - 262	4676			AR060: 4, AR316: 3, AR089: 2 L0439: 5, L0438: 2, S0624: 1, H0052: 1, H0009: 1, H0051: 1, H0424: 1, S0352: 1, L0794: 1, L0803: 1, L0790: 1 and S0106: 1.		
2070	HSDDC55	663277	2080	116 - 214	4677			S0031: 1		
2071	HSDEA26	822812	2081	246 - 377	4678		Phe-28 to Arg-33.	H0052: 1 and S0031: 1.		
2072	HSDEX39	655366	2082	88 - 195	4679		Arg-21 to Ser-35.	S0031: 1		

2073	hsdH72	637662	2083	192 - 260	4680		L0766: 4, H0624: 1, S0114: 1, S0356: 1, H0251: 1, H0615: 1, L0792: 1, L0663: 1, H0593: 1, H0672: 1, L0746: 1 and S0031: 1.		
2074	HSDFO08	605008	2084	74 - 169	4681		L0748: 3, L0754: 3, L0749: 3 and S0031: 1.		
2075	HSDFR10	853377	2085	167 - 241	4682		L0777: 7, L0740: 5, L0755: 5, L0779: 2, S0360: 1, H0046: 1, L0471: 1, H0014: 1, S0036: 1, L0803: 1, L0756: 1 and S0031: 1.		
2076	HSDGB20	608309	2086	217 - 312	4683		S0031: 1		
2077	HSDGH56	853379	2087	76 - 126	4684		AR089: 12, AR316: 10, AR060: 8 S0216: 7, S0053: 6, H0346: 4, H0305: 3, H0615: 2, S0052: 2, L0589: 2, L0599: 2, H0556: 1, S0114: 1, S0001: 1, H0306: 1, S0360: 1, H0632: 1, T0082: 1, H0318: 1, H0581: 1, H0634: 1, S0428: 1, H0519: 1, S0152: 1, L0779: 1, S0031: 1, H0343: 1 and L0596: 1.		
2078	HSDGM01	608310	2088	71 - 178	4685	Lys-30 to Pro-35.	S0031: 1		
2079	HSDGM42	870143	2089	765 - 2639	4686	Asn-45 to Leu-50, Ser-140 to Gln-148, Asn-238 to Gln-243, Ser-259 to Lys-266, Ser-300 to Arg-307, Arg-429 to Val-434, His-448 to Phe-454, Glu-469 to Gln-476, Leu-506 to Leu-512, Arg-586 to Phe-597.	AR244: 9, AR312: 7, AR309: 7, AR313: 7, AR265: 7, AR263: 7, AR310: 7, AR183: 6, AR247: 6, AR053: 6, AR192: 6, AR204: 6, AR052: 6, AR271: 6, AR096: 5, AR243: 5, AR249: 5, AR202: 5, AR186: 5, AR274: 5, AR246: 5, AR213: 5, AR033: 5, AR248: 5, AR198: 4, AR060: 4, AR295: 4, AR206: 4,	16	

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2080	HSDGM42	824916	2090	67 - 174	4687	Arg.23 to Arg.30.	AR244: 9, AR312: 7,	16
							2, L0794: 2, L0776: 2, L0659; 2, L0789: 2, H0520: 2, S0126; 2, S3014: 2, L0742: 2, L0747; 2, L0755: 2, L0759: 2, L0591; 2, L0581: 2, H0624: 1, S0040; 1, S0342: 1, S0402: 1, S0114; 1, S0134: 1, H0656: 1, H0255; 1, H0661: 1, H0402: 1, H0638; 1, S0420: 1, S0354: 1, S0360; 1, S0132: 1, S6026: 1, H0549; 1, S0222: 1, S6014: 1, H0392; 1, H0455: 1, H0642: 1, H0331; 1, H0632: 1, T0040: 1, H0013; 1, H0599: 1, L0022: 1, H0581; 1, S0049: 1, H0052: 1, H0251; 1, H0204: 1, H0544: 1, H0046; 1, H0457: 1, L0157: 1, H0050; 1, H0014: 1, S0051: 1, H0099; 1, H0188: 1, H0288: 1, H0286; 1, H0428: 1, L0483: 1, H0031; 1, H0553: 1, H0181: 1, H0617; 1, S0366: 1, H0040: 1, H0616; 1, H0551: 1, H0623: 1, T0042; 1, L0475: 1, H0334: 1, H0560; 1, H0625: 1, H0509: 1, H0647; 1, H0646: 1, S0344: 1, H0538; 1, L0762: 1, L0763: 1, L0637; 1, L0372: 1, L0800: 1, L0626; 1, L0803: 1, L0774: 1, L0378; 1, L0655: 1, L0657: 1, L0809; 1, L0647: 1, L0664: 1, L0665; 1, S0052: 1, H0547: 1, H0690; 1, H0672: 1, H0709: 1, H0696; 1, H0187: 1, H0436: 1, H0478; 1, S0037: 1, S0028: 1, L0439; 1, L0779: 1, L0780: 1, L0752; 1, S0031: 1, S0434: 1, S0436; 1, L0595: 1, L0601: 1, S0011; 1, H0668: 1 and H0677: 1.	

TOTAL

AR309: 7, AR313: 7, AR265: 7, AR263: 7, AR310: 7, AR183: 6, AR247: 6, AR053: 6, AR192: 6, AR204: 6, AR052: 6, AR271: 6, AR096: 5, AR243: 5, AR249: 5, AR202: 5, AR186: 5, AR274: 5, AR246: 5, AR213: 5, AR033: 5, AR248: 5, AR198: 4, AR060: 4, AR295: 4, AR206: 4, AR275: 4, AR299: 4, AR269: 4, AR273: 4, AR219: 4, AR218: 4, AR104: 4, AR316: 4, AR282: 4, AR315: 4, AR039: 4, AR089: 4, AR194: 4, AR253: 4, AR205: 4, AR293: 3, AR185: 3, AR175: 3, AR240: 3, AR314: 3, AR061: 3, AR234: 3, AR055: 3, AR229: 3, AR292: 3, AR294: 3, AR231: 3, AR267: 3, AR270: 3, AR268: 3, AR177: 2, AR184: 2, AR283: 2, AR277: 2, AR291: 2, AR226: 2, AR233: 2, AR238: 2, AR300: 2, AR237: 2, AR266: 2, AR256: 2, AR227: 2, AR280: 2, AR259: 2, AR232: 2, AR258: 2, AR290: 2, AR296: 1, AR182: 1, AR179: 1, AR281: 1, AR241: 1, AR298: 1,
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AR286: 1	H0271: 10, H0556: 7, L0731: 7, H0494: 5, L0766: 5, L0777: 5, H0622: 4, L0805: 4, L0741: 4, L0743: 4, L0744: 4, L0749: 4, H0619: 3, H0333: 3, H0179: 3, H0416: 3, S0440: 3, L0804: 3, H0519: 3, H0539: 3, H0521: 3, L0740: 3, L0758: 3, H0542: 3, H0543: 3, H0458: 2, L0717: 2, H0592: 2, H0618: 2, H0318: 2, T0041: 2, H0529: 2, L0769: 2, L0667: 2, L0643: 2, L0521: 2, L0794: 2, L0776: 2, L0659: 2, L0789: 2, H0520: 2, S0126: 2, S0014: 2, L0742: 2, L0747: 2, L0755: 2, L0759: 2, L0591: 2, L0581: 2, H0624: 1, S0040: 1, S0342: 1, S0402: 1, S0114: 1, S0134: 1, H0656: 1, H0255: 1, H0601: 1, H0402: 1, H0638: 1, S0420: 1, S0354: 1, S0360: 1, S0132: 1, S6026: 1, H0549: 1, S0222: 1, S6014: 1, H0392: 1, H0455: 1, H0642: 1, H0331: 1, H0632: 1, T0040: 1, H0013: 1, H0599: 1, L0022: 1, H0581: 1, S0049: 1, H0052: 1, H0251: 1, H0204: 1, H0544: 1, H0046: 1, H0457: 1, L0157: 1, H0050: 1, H0014: 1, S0051: 1, H0099: 1, H0188: 1, H0288: 1, H0286: 1, H0428: 1, L0483: 1, H0031: 1, H0553: 1, H0181: 1, H0617: 1, S0366: 1, H0040: 1, H0616: 1, H0551: 1, H0623: 1, T0042: 1, L0475: 1, H0334: 1, H0560: 1, H0625: 1, H0509: 1, H0647: 1, H0646: 1, S0344: 1, H0538: 1, L0762: 1, L0763: 1, L0637:
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2081	HSDGM42	852473	2091	940 - 978	4688				1, L0372: 1, L0800: 1, L0626: 1, L0803: 1, L0774: 1, L0378: 1, L0655: 1, L0657: 1, L0809: 1, L0647: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0690: 1, H0672: 1, H0709: 1, H0696: 1, H0187: 1, H0436: 1, H0478: 1, S0037: 1, S0028: 1, L0439: 1, L0779: 1, L0780: 1, L0752: 1, S0031: 1, S0434: 1, S0436: 1, L0595: 1, L0601: 1, S0011: 1, H0668: 1 and H0677: 1.		
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2082	HSDGM42	861925	2092	399 - 2699	4689	Arg-27 to Ser-32, Pro-51 to Tyr-56, Glu-114 to Gln-134, Asn-187 to Leu-192, Ser-282 to Gln-290, Asn-378 to Gln-385, Ser-401 to Lys-408, Ser-442 to Arg-449, Arg-571 to Val-576, His-590 to Phe-596, Gln-611 to Gln-618, Leu-648 to Leu-654, Arg-728 to Phe-739.	16	1, S0049: 1, H0052: 1, H0251: 1, H0204: 1, H0544: 1, H0046: 1, H0457: 1, L0157: 1, H0050: 1, H0014: 1, S0051: 1, H0099: 1, H0188: 1, H0288: 1, H0286: 1, H0428: 1, L0483: 1, H0031: 1, H0553: 1, H0181: 1, H0617: 1, S0366: 1, H0040: 1, H0616: 1, H0551: 1, H0623: 1, T0042: 1, L0475: 1, H0334: 1, H0560: 1, H0625: 1, H0509: 1, H0647: 1, H0646: 1, S0344: 1, H0538: 1, L0762: 1, L0763: 1, L0637: 1, L0372: 1, L0800: 1, L0626: 1, L0803: 1, L0774: 1, L0378: 1, L0655: 1, L0657: 1, L0809: 1, L0647: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0690: 1, H0672: 1, H0709: 1, H0696: 1, H0187: 1, H0436: 1, H0478: 1, S0037: 1, S0028: 1, L0439: 1, L0779: 1, L0780: 1, L0752: 1, S0031: 1, S0434: 1, S0436: 1, L0595: 1, L0601: 1, S0011: 1, H0668: 1 and H0677: 1.
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2083	HSDGM42	865828	2093	128 - 235	4690	Arg-23 to Arg-30.	2, L0789: 2, H0520: 2, S0126; 2, S3014: 2, L0742: 2, L0747; 2, L0755: 2, L0759: 2, L0591: 2, L0581: 2, H0624: 1, S0040: 1, S0342: 1, S0402: 1, S0114; 1, S0134: 1, H0656: 1, H0255: 1, H0661: 1, H0402: 1, H0638: 1, S0420: 1, S0354: 1, S0360: 1, S0132: 1, S6026: 1, H0549: 1, S0222: 1, S6014: 1, H0392: 1, H0455: 1, H0642: 1, H0331: 1, H0632: 1, T0040: 1, H0013: 1, H0599: 1, L0022: 1, H0581: 1, S0049: 1, H0052: 1, H0251: 1, H0204: 1, H0544: 1, H0046: 1, H0457: 1, L0157: 1, H0050: 1, H0014: 1, S0051: 1, H0099: 1, H0188: 1, H0288: 1, H0286: 1, H0428: 1, L0483: 1, H0031: 1, H0553: 1, H0181: 1, H0617: 1, S0366: 1, H0040: 1, H0616: 1, H0551: 1, H0623: 1, T0042: 1, L0475: 1, H0334: 1, H0560: 1, H0625: 1, H0509: 1, H0647: 1, H0646: 1, S0344: 1, H0538: 1, L0762: 1, L0763: 1, L0637: 1, L0372: 1, L0800: 1, L0626: 1, L0803: 1, L0774: 1, L0378: 1, L0655: 1, L0657: 1, L0809: 1, L0647: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0690: 1, H0672: 1, H0709: 1, H0696: 1, H0187: 1, H0436: 1, H0478: 1, S0037: 1, S0028: 1, L0439: 1, L0779: 1, L0780: 1, L0752: 1, S0031: 1, S0434: 1, S0436: 1, L0595: 1, L0601: 1, S0011: 1, H0668: 1 and H0677: 1.	16
						Arg-23 to Arg-30.	AR244: 9, AR312: 7, AR309: 7, AR313: 7,	

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2084	HSDGM42	886748	2094	128 - 235	4691	Arg-23 to Arg-30.	1, L0803: 1, L0774: 1, L0378: 1, L0655: 1, L0657: 1, L0809: 1, L0647: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0690: 1, H0672: 1, H0709: 1, H0696: 1, H0187: 1, H0436: 1, H0478: 1, S0037: 1, S0028: 1, L0439: 1, L0779: 1, L0780: 1, L0752: 1, S0031: 1, S0434: 1, S0436: 1, L0595: 1, L0601: 1, S0011: 1, H0668: 1 and H0677: 1.	16	
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2085	HSDHD05	570824	2095	229 - 417	4692	L0744; 2, H0624; 1, H0171; 1, H0650; 1, H0599; 1, H0374; 1, H0052; 1, H0615; 1, H0553; 1, H0166; 1, L0773; 1, L0659; 1, S0260; 1 and H0665; 1, H0124; 5, H0521; 5, S0022; 3, S0126; 3, S0418; 2, H0587; 2, H0081; 2, L0483; 2, L0766; 2, H0519; 2, L0748; 2, L0731; 2, L0588; 2, L0600; 2, T0002; 1, T0049; 1, S0116; 1, H0661; 1, S0420; 1, L0005; 1, S0356; 1, H0580; 1, H0645; 1, H0549; 1, H0550; 1, S0222; 1, H0586; 1, H0486; 1, H0013; 1, H0669;
2086	HSDIE51	600371	2096	185 - 271	4693	
2087	HSDIK31	847087	2097	194 - 340	4694	

2088	HSDIV37	847088	2098	147 - 239	4695			1, H0098: 1, H0575: 1, H0036: 1, L0563: 1, S0049: 1, H0052: 1, H0009: 1, H0275: 1, H0252: 1, H0031: 1, H0644: 1, H0383: 1, H0090: 1, H0551: 1, H0412: 1, L0564: 1, H0560: 1, S0450: 1, H0509: 1, L0763: 1, L0637: 1, L0646: 1, L0804: 1, L0654: 1, L0659: 1, L0783: 1, L0789: 1, H0144: 1, H0520: 1, H0435: 1, H0478: 1, H0627: 1, S0037: 1, L0749: 1, L0757: 1, S0260: 1, L0591: 1, L0603: 1, H0667: 1 and H0543: 1.
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2089	HSDIC96	753284	2099	687 - 830	4696			AR060: 8, AR316: 7, AR089: 7, H0556: 2, H0662: 2, S0420: 2, H0013: 2, H0457: 2, L0766: 2, L0659: 2, H0520: 2, S0136: 2, L0731: 2, H0624: 1, S0376: 1, S0132: 1, S0476: 1, H0619: 1, L0021: 1, H0581: 1, H0251: 1, H0105: 1, H0373: 1, S0003: 1, H0328: 1, H0615: 1, H0622: 1, H0553: 1, H0644: 1, H0628: 1.

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2090	HSDJE77	741053	2100	114 - 212	4697				S0045: 1, H0264: 1, L0779: 1 and S0260: 1.			
2091	HSDJF04	695756	2101	74 - 424	4698	Tyr-59 to Arg-64, Pro-101 to Met-116.	AR089: 13, AR316: 12, AR060: 11 L0439: 13, S0007: 3, L0438: 3, L0777: 3, S0346: 2, L0351: 2, L0804: 2, L0753: 2, S0040: 1, S0360: 1, H0339: 1, S0045: 1, S0626: 1, S0300: 1, L0394: 1, S0222: 1, H0415: 1, H0455: 1, H0587: 1, T0109: 1, H0590: 1, S0010: 1, H0310: 1, H0251: 1, H0009: 1, H0572: 1, H0051: 1, H0268: 1, L0371: 1, L0768: 1, L0794: 1, L0805: 1, L0518: 1, L0791: 1, H0520: 1, H0521: 1, H0696: 1, L0748: 1, L0749: 1, L0780: 1, L0759: 1, S0031: 1, S0260: 1, L0366: 1 and S0026: 1.	14q21.3	182600, 232700, 602086			
2092	HSDJG47	847325	2102	714 - 851	4699				AR060: 8, AR316: 7, AR089: 7 L0748: 6, H0402: 3, S0378: 3, L0750: 3, H0620: 2, L0666: 2, L0740: 2, L0745: 2, L0600: 2, H0241: 1, H0305: 1, S0418: 1, H0550: 1, H0706: 1, H0253: 1, H0231: 1, H0327: 1, H0457: 1, L0157: 1, H0123: 1, H0012: 1, L0669: 1, H0615: 1, H0673: 1.	17pter-p13.1		

2093	HSDJH72	805971	2103	241 - 312	4700		1, H0668: 1, H0488: 1, S0144: 1, L0794: 1, L0774: 1, L0776: 1, L0807: 1, L0809: 1, L0665: 1, S0052: 1, L0352: 1, S0328: 1, H0187: 1, L0743: 1, L0749: 1, L0777: 1, L0752: 1, L0759: 1, S0260: 1, L0599: 1 and: 1, AR089: 27, AR316: 20, AR060: 13 H0411: 1, H0427: 1, H0538: 1 and S0260: 1.
2094	HSDJL07	895387	2104	282 - 392	4701	Ser-27 to Phe-36.	
2095	HSDJR49	741079	2105	102 - 203	4702	Ser-27 to Met-33.	
2096	HSDJV24	806246	2106	2 - 1489	4703	Arg-29 to His-35, Arg-54 to Ala-61, Ser-76 to Gln-103, Val-111 to Arg-116, Glu-121 to Pro-141, Gly-149 to Cys-164, Asn-183 to Glu-188, Thr-227 to Glu-234, Ser-298 to Arg-304, Gln-323 to Glu-328, Asp-343 to Tyr-354, Tyr-395 to Gly-408, Glu-427 to Arg-434, Pro-466 to Asp-471, Pro-480 to Asn-493.	11
2097	HSDJV40	623716	2107	126 - 317	4704	Pro-44 to Asn-49.	H0265: 1, L0754: 1, S0260: 1 and L0596: 1.

2098	HSDKA64	600372	2108	199 - 366	4705	Gly-19 to Trp-27, Gln-40 to Trp-45.	S0260: 1 and H0423: 1.		
2099	HSDKE82	821579	2109	120 - 410	4706	Thr-52 to Ile-61, Val-64 to Lys-73.	S0260: 1		
2100	HSDKIP96	839730	2110	187 - 264	4707	Ala-61 to Leu-81,	S0260: 1		
2101	HSDZO08	827460	2111	1142 - 1651	4708	Pro-123 to Glu-131, Ala-141 to Lys-146.	L0777: 7, H0052: 6, L0758: 6, S0222: 5, H0333: 3, L0157: 3, H0617: 3, L0769: 3, L0662: 3, H0696: 3, L0744: 3, L0779: 3, L0759: 3, S0114: 2, L0103: 2, H0550: 2, H0486: 2, H0618: 2, H0253: 2, H0050: 2, T0010: 2, H0181: 2, H0182: 2, L0639: 2, L5565: 2, L0771: 2, L0768: 2, L0766: 2, L0517: 2, L0532: 2, L0666: 2, L0665: 2, H0144: 2, H0519: 2, H0658: 2, L0751: 2, L0752: 2, L0608: 2, T0049: 1, H0661: 1, H0306: 1, S0360: 1, S0045: 1, S0300: 1, H0351: 1, H0261: 1, H0455: 1, H0587: 1, H0632: 1, T0040: 1, H0427: 1, H0599: 1, S0010: 1, S0049: 1, H0009: 1, L0471: 1, H0024: 1, H0275: 1, H0083: 1, S0024: 1, H0099: 1, H0188: 1, S0250: 1, H0039: 1, H0424: 1, H0405: 1, H0673: 1, H0100: 1, H0647: 1, S0426: 1, L0763: 1, L0637: 1, L5575: 1, L0641: 1, L0767: 1, L0649: 1, L0806: 1, L0776: 1, L0383: 1, L0809: 1, L0789: 1, L0792: 1, S0052: 1, L0438: 1, H0547: 1, H0593: 1, S0126: 1, H0672: 1, S0330: 1, H0521: 1, H0436: 1, S0028: 1, L0741: 1, L0743: 1, L0747: 1, L0749: 1, L0756: 1, L0753: 1, L0596: 1, L0590: 1, S0106: 1, S0194: 1, S0460: 1 and H0506: 1.	3p21.1	150250, 164500, 168408, 182280, 238310, 600163, 601226, 601916

2102	HSDZQ96	809112	2112	330 - 371	4709		L0741: 2, L0439: 2, S0222: 1, H0455: 1, H0438: 1, N0007: 1, L0769: 1 and L0592: 1, AR089: 3, AR316: 3, AR060: 2, L0439: 7, L0769: L0766: 8, L0438: 4, L0750: 6, L0747: 5, L0438: 4, L0750: 4, L0764: 3, S0045: 2, L0770: 2, L0768: 2, L0774: 2, L0659: 2, L0783: 2, L0809: 2, L0751: 2, L0731: 2, L0589: 2, H0543: 2, H0685: 1, S0360: 1, H0580: 1, H0351: 1, H0156: 1, L0021: 1, H0575: 1, H0581: 1, H0457: 1, L0041: 1, H0050: 1, H0024: 1, H0376: 1, H0063: 1, H0100: 1, H0494: 1, L0638: 1, L0648: 1, L0662: 1, L0649: 1, L0784: 1, L0666: 1, L0663: 1, H0520: 1, H0659: 1, L0759: 1 and H0445: 1	
2103	HSEBB18	877813	2113	268 - 312	4710		114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 276901, 600105, 600332, 600759, 601494, 601744, 601975	
2104	HSFAM19	691371	2114	170 - 316	4711	Ser-32 to Ala-41.	AR089: 23, AR316: 18, AR060: 13, H0154: 1	1q32-q41
2105	HSAG54	834781	2115	155 - 271	4712		AR089: 14, AR316: 11, AR060: 8, L0748: 8, L0769: 5, L0759: 5, L0803: 4, H0657: 3, S0360: 3, H0561: 3, L0520: 3, L0593: 3, H0341: 2, H0428: 2, T0042: 2, L0804: 2, L0784: 2, L0787: 2, L0663: 2, H0519: 2, L0753: 2	

2106	HSHAS72	835991	2116	207 - 422	4713	Thr-58 to Lys-67.	<p>2, L0591: 2, L0595: 2, H0171: 1, H0556: 1, H0663: 1, S0418: 1, H0580: 1, H0587: 1, H0331: 1, T0109: 1, S0010: 1, S0182: 1, H0052: 1, T0115: 1, T0003: 1, H0083: 1, H0031: 1, S0036: 1, H0647: 1, L0369: 1, L0761: 1, L0641: 1, L0773: 1, L0662: 1, L0768: 1, L0794: 1, L0766: 1, L0806: 1, L0805: 1, L0776: 1, L0661: 1, L0629: 1, L0657: 1, L0656: 1, L0659: 1, L0526: 1, L0519: 1, L0541: 1, L0666: 1, L0664: 1, L0665: 1, H0144: 1, H0547: 1, S0126: 1, H0659: 1, H0648: 1, H0539: 1, H0696: 1, S0037: 1, S3014: 1, L0754: 1, L0747: 1, L0750: 1, L0779: 1, L0752: 1, L0731: 1, L0757: 1, S0260: 1, L0592: 1, L0608: 1, S0026: 1, H0423: 1 and S0424: 1.</p>
2106	HSHAS72	835991	2116	207 - 422	4713	Thr-58 to Lys-67.	<p>AR223: 8, AR170: 7, AR168: 6, AR192: 6, AR207: 5, AR180: 5, AR171: 5, AR176: 5, AR183: 4, AR182: 4, AR269: 4, AR060: 4, AR181: 4, AR039: 4, AR204: 4, AR162: 4, AR205: 4, AR163: 4, AR161: 4, AR266: 4, AR228: 4, AR214: 4, AR216: 4, AR257: 4, AR271: 4, AR178: 4, AR225: 3, AR222: 3, AR243: 3, AR201: 3, AR250: 3, AR165: 3, AR166: 3, AR172: 3, AR238: 3, AR270: 3,</p>

2108	HSBHT15	581088	2118	187 - 468	4715	Gly-1 to Ala-13.	1, L0806: 1, L0519: 1, L0666: 1, L0663: 1, H0698: 1, H0689: 1, H0539: 1, H0518: 1, S0027: 1, S0028: 1, L0747: 1, L0752: 1, H0707: 1, L0597: 1, L0581: 1, L0361: 1, H0653: 1, H0542: 1 and H0506: 1. H0069: 2, H0635: 2, H0575: 2, H0031: 2, H0634: 2, L0662: 2, L0751: 2, L0758: 2, H0170: 1, H0149: 1, S0040: 1, H0656: 1, H0392: 1, H0249: 1, H0123: 1, H0428: 1, H0038: 1, L0761: 1, L0803: 1, L0805: 1, L0653: 1, H0144: 1, S0037: 1, L0756: 1, L0779: 1, L0777: 1 and L0780: 1.	20q13.1-q13.2	118504, 118504, 131242, 139320, 139320, 139320, 139320, 256540, 600281, 600281, 602025
2109	HSHCER5	855969	2119	263 - 373	4716		S0408: 3, H0351: 3, L0766: 3, S0037: 3, L0439: 3, S0418: 2, H0637: 2, S0132: 2, H0370: 2, L0142: 2, H0494: 2, L0803: 2, L0663: 2, H0144: 2, H0520: 2, L0748: 2, L0745: 2, L0749: 2, L0752: 2, H0170: 1, H0556: 1, S0134: 1, H0650: 1, T0007: 1, S0354: 1, H0549: 1, H0431: 1, H0360: 1, H0251: 1, H0014: 1, H0239: 1, S0003: 1, H0031: 1, H0553: 1, H0634: 1, H0551: 1, H0412: 1, L0065: 1, S0438: 1, H0647: 1, H0646: 1, S0210: 1, L0768: 1, L0794: 1, L0649: 1, L0527: 1, L0639: 1, L0809: 1, L0789: 1, L0665: 1, H0648: 1, S0380: 1, H0694: 1, S0406: 1, S0028: 1 and L0754: 1.		
2110	HSIAC81	783076	2120	46 - 111	4717		AR060: 18, AR232: 10, AR226: 10, AR316: 7, AR299: 7, AR238: 6, AR059: 6, AR237: 6.		

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2111	HSIAF66	853381	2121	74 - 187	4718			AR213: 1, AR174: 1, AR286: 1, AR260: 1, AR242: 1, AR201: 1, AR219: 1, AR217: 1, S0354: 2, H0036: 2, H0590: 2, H0014: 1 and L0803: 1.	
2112	HSIAP01	897538	2122	90 - 170	4719	Pro-20 to Ser-25.		H0036: 1 AR089: 4, AR060: 3, AR316: 2 H0036: 2 and H0253: 1.	
2113	HSIDA33	784543	2123	196 - 210	4720			L0748: 7, H0633: 4, L0754: 4, S0358: 3, H0510: 3, L0770: 3, L0439: 3, H0638: 2, H0036: 2, H0050: 2, S0036: 2, L0766: 2, H0656: 1, H0341: 1, S0212: 1, H0619: 1, H0441: 1, H0392: 1, H0632: 1, T0060: 1, S0049: 1, H0051: 1, H0266: 1, H0615: 1, H0428: 1, H0031: 1, H0644: 1, H0063: 1, H0100: 1, H0359: 1, H0561: 1, S0438: 1, S0344: 1, S0002: 1, S0426: 1, L0803: 1, L0375: 1, L0776: 1, L0809: 1, L0791: 1, L0792: 1, T0068: 1, L0438: 1, H0684: 1, S0146: 1, S3014: 1, L0747: 1, L0749: 1, L0779: 1, L0753: 1 and S0260: 1.	12
2114	HSIDA39	604958	2124	260 - 433	4721	Lys-21 to Ser-28, Glu-33 to Trp-40, Arg-52 to Thr-57.		L0520: 3, H0333: 1, H0036: 1 and L0752: 1.	
2115	HSIDZ25	658721	2125	53 - 388	4722	Arg-33 to Phe-41.		AR313: 8, AR060: 5, AR310: 5, AR052: 5, AR249: 4, AR299: 4, AR229: 4, AR312: 4, AR309: 4, AR293: 4, AR089: 4, AR198: 4, AR061: 4, AR282: 4, AR253: 3, AR096: 3.	

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2116	HSIEB64	651359	2126	182 - 280	4723		AR053: 3, AR186: 3, AR247: 3, AR183: 3, AR238: 3, AR226: 3, AR269: 3, AR271: 3, AR265: 3, AR213: 3, AR251: 3, AR033: 3, AR240: 3, AR246: 3, AR231: 3, AR316: 2, AR177: 2, AR192: 2, AR182: 2, AR202: 2, AR055: 2, AR243: 2, AR286: 2, AR248: 2, AR175: 2, AR275: 2, AR295: 2, AR263: 2, AR277: 2, AR233: 2, AR270: 2, AR206: 2, AR291: 2, AR185: 2, AR218: 2, AR300: 2, AR258: 2, AR283: 1, AR296: 1, AR219: 1, AR259: 1, AR205: 1, AR285: 1, AR289: 1, L0740: 9, L0755: 7, H0556: 4, H0251: 4, S0358: 3, L0772: 2, L0764: 2, L0768: 2, L0766: 2, L0747: 2, H0218: 1, S0040: 1, S0212: 1, S0420: 1, S0444: 1, S0360: 1, S0046: 1, H0549: 1, H0036: 1, H0590: 1, H0046: 1, H0687: 1, L0483: 1, H0413: 1, H0646: 1, L0369: 1, L0363: 1, L0649: 1, L0774: 1, L0775: 1, L0806: 1, L0665: 1, H0144: 1, H0638: 1, S0380: 1, H0134: 1, L0743: 1, L0754: 1, L0731: 1, L0757: 1, H0445: 1, H0343: 1, S0011: 1, H0668: 1 and S0276: 1.
							L0756: 2, H0036: 1 and L0769: 1.

2117	HSIEM18	566877	2127	162 - 209	4724		L0754: 4, S0003: 2, H0615: 2, L0804: 2, H0659: 2, L0758: 2, H0669: 1, S0376: 1, H0208: 1, L0717: 1, H0486: 1, H0036: 1, H0052: 1, H0553: 1, T0067: 1, L0666: 1, S0374: 1, H0521: 1, L0752: 1 and S0011: 1.		
2118	HSIF061	845026	2128	95 - 1933	4725	Ser-27 to Pro-35, Thr-87 to Ile-99, Pro-106 to Lys-112, Glu-119 to Ser-130, Ser-182 to Val-187, Lys-194 to Tyr-204, Lys-295 to Val-300, Lys-384 to Glu-390, Thr-512 to Thr-526, Ser-530 to Glu-537, Gln-556 to Lys-562, Lys-593 to Leu-601.	Xq25-q26	300037, 300076, 300123, 301201, 301845, 301900, 304340, 307150, 307700, 308000, 308000, 308230, 308240, 309555, 310490, 312000, 313350, 313850	

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2119	HSIF061	852715	2129	772 - 882	4726	<p>L0803: 13, L0774: 8, L0751: 5, H0038: 4, L0666: 4, L0663: 4, H0521: 4, H0036: 3, H0590: 3, L0163: 3, L0664: 3, L0748: 3, L0749: 3, L0752: 3, H0543: 3, H0556: 2, H0341: 2, S0046: 2, H0431: 2, H0196: 2, H0373: 2, H0510: 2, S0003: 2, H0551: 2, H0561: 2, L0769: 2, L0771: 2, L0665: 2, H0144: 2, H0547: 2, L0439: 2, L0754: 2, L0596: 2, L0604: 2, H0542: 2, H0650: 1, H0638: 1, S0132: 1, H0393: 1, L0717: 1, H0351: 1, S0278: 1, H0409: 1, H0592: 1, H0497: 1, H0013: 1, H0004: 1, S0182: 1, H0318: 1, H0046: 1, H0012: 1, H0266: 1, H0286: 1, H0644: 1, H0135: 1, H0090: 1, T0067: 1, H0059: 1, S0130: 1, S0002: 1, H0529: 1, L0369: 1, L0763: 1, L0637: 1, L0646: 1, L0768: 1, L0794: 1, L0766: 1, L0804: 1, L0806: 1, L0657: 1, L0809: 1, L0367: 1, L0789: 1, S0374: 1, H0435: 1, H0658: 1, H0670: 1, H0522: 1, H0134: 1, S0028: 1, L0747: 1, L0779: 1, L0777: 1, L0755: 1, L0758: 1 and L0591: 1.</p>	Xq25-q26	<p>300037, 300076, 300123, 301201, 301845, 301900, 304340, 307150, 307700, 308000, 308000, 308230, 308240, 309555, 310490, 312000, 313350, 313850</p>
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2120	HSIGC63	877486	2130	259 - 303	4727		1, H0266: 1, H0286: 1, H0644: 1, H0135: 1, H0090: 1, T0067: 1, H0059: 1, S0150: 1, S0002: 1, H0529: 1, L0369: 1, L0763: 1, L0637: 1, L0646: 1, L0768: 1, L0794: 1, L0766: 1, L0804: 1, L0806: 1, L0657: 1, L0809: 1, L0367: 1, L0789: 1, S0374: 1, H0435: 1, H0658: 1, H0670: 1, H0522: 1, H0134: 1, S0028: 1, L0747: 1, L0779: 1, L0777: 1, L0755: 1, L0758: 1 and L0591: 1.		
							AR089: 12, AR316: 9, AR060: 7 H0556: 2, H0637: 1, S0132: 1, H0590: 1, H0253: 1 and S0344: 1.		
2121	HSIGM95	840382	2131	398 - 403	4728		AR089: 22, AR316: 17, AR060: 12 H0590: 2 and S0114: 1.		
2122	HSIAE76	769762	2132	180 - 272	4729		L0754: 6, L0748: 4, L0439: 4, L0756: 3, L0717: 2, L0370: 2, H0547: 2, L0747: 2, L0758: 2, H0395: 1, H0556: 1, H0656: 1, S0212: 1, H0333: 1, T0039: 1, H0013: 1, H0052: 1, H0309: 1, H0263: 1, H0050: 1, L0471: 1, H0083: 1, H0030: 1, H0031: 1, H0553: 1, H0038: 1, H0040: 1, H0551: 1, H0396: 1, UNKWN: 1, L0598: 1, L0662: 1, L0804: 1, L0378: 1, L0806: 1, L0653: 1, L0792: 1, L0352: 1, H0520: 1, H0682: 1, H0684: 1, S0032: 1, L0749: 1, L0779: 1, L0755: 1, L0757: 1 and H0422: 1.		9
2123	HSIAN83	825132	2133	189 - 227	4730		H0574: 1 and S0032: 1.		

2124	HSIAQ10	853383	2134	56 - 190	4731		L0769: 3, L0439: 3, H0676: 2, H0333: 2, L0794: 2, L0783: 2, S0053: 2, S0328: 2, L0748: 2, L0759: 2, H0265: 1, H0556: 1, S0430: 1, H0657: 1, H0341: 1, S0360: 1, S0132: 1, H0393: 1, L0717: 1, H0486: 1, S0010: 1, H0318: 1, H0052: 1, L0471: 1, S0051: 1, H0038: 1, H0040: 1, H0412: 1, H0494: 1, S0016: 1, H0130: 1, S0210: 1, S0422: 1, L0646: 1, L0644: 1, L0771: 1, L0774: 1, L0655: 1, L0527: 1, L0657: 1, L0789: 1, S0216: 1, L0438: 1, L0352: 1, S0330: 1, S0146: 1, S0032: 1, L0749: 1, L0779: 1, L0777: 1, L0757: 1, S0242: 1, S0276: 1 and H0423: 1.	22q13.2	188826
2125	HSIAR59	846364	2135	35 - 130	4732		AR089: 640, AR316: 606, AR060: 573 S0032: 1		
2126	HSIAU93	702019	2136	87 - 632	4733	Leu-44 to Arg-52, Ala-66 to Leu-73, Asp-79 to Cys-84, Gln-133 to Arg-139, Ala-143 to Val-150, Thr-152 to Arg-160.	AR060: 7, AR316: 7, AR089: 7 L0794: 5, H0657: 3, L0439: 3, H0253: 2, H0620: 2, H0617: 2, L0769: 2, L0766: 2, L0593: 2, L0601: 2, L0785: 1, H0545: 1, H0012: 1, H0375: 1, S0364: 1, H0087: 1, H0059: 1, H0132: 1, L0369: 1, L0762: 1, L0761: 1, L0662: 1, L0375: 1, L0659: 1, L0791: 1, L0666: 1, L0663: 1, H0519: 1, H0682: 1, H0521: 1, H0134: 1, H0436: 1, H0576: 1, S0206: 1, S0032: 1, L0747: 1, L0757: 1, L0366: 1, H0665: 1 and H0422: 1.		
2127	HSJAY14	813220	2137	416 - 430	4734		AR089: 7, AR316: 6, AR060: 6	9	

2129	HSIAY14	888485	2139	416-430	4736					1, S0036: 1, T0042: 1, H0366: 1, S0306: 1, S0438: 1, S0440: 1, S0150: 1, L0598: 1, L0770: 1, L0637: 1, L0521: 1, L0662: 1, L0766: 1, L0804: 1, L0653: 1, L0512: 1, L0647: 1, L0790: 1, L0665: 1, H0144: 1, H0520: 1, H0593: 1, S0126: 1, H0690: 1, H0660: 1, H0666: 1, H0648: 1, S0380: 1, H0518: 1, S0404: 1, S0032: 1, L0751: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0589: 1, H0668: 1, H0422: 1 and H0293: 1.
2129	HSIAY14	888485	2139	416-430	4736					AR089: 7, AR316: 6, AR060: 6 L0759: 11, L0748: 7, L0439: 7, L0749: 7, L0731: 4, H0553: 3, L0805: 3, L0809: 3, L0789: 3, L0750: 3, L0736: 3, L0777: 3, H0624: 2, L0471: 2, H0266: 2, H0494: 2, L0372: 2, L0803: 2, L0438: 2, H0521: 2, L0740: 2, H0423: 2, H0170: 1, H0171: 1, S0134: 1, S0360: 1, S0222: 1, H0441: 1, H0333: 1, H0013: 1, H0244: 1, H0251: 1, T0110: 1, H0046: 1, H0014: 1, H0032: 1, S0036: 1, T0042: 1, H0366: 1, S0306: 1, S0438: 1, S0440: 1, S0150: 1, L0598: 1, L0770: 1, L0637: 1, L0521: 1, L0662: 1, L0766: 1, L0804: 1, L0653: 1, L0512: 1, L0647: 1, L0790: 1, L0665: 1, H0144: 1, H0520: 1, H0593: 1, S0126: 1, H0690: 1, H0660: 1, H0666: 1, H0648: 1, S0380: 1, H0518: 1, S0404: 1, S0032: 1, L0751: 1, L0747: 1, L0779: 1, L0752: 1, L0755:

2130	HSJAY14	901635	2140	416 - 430	4737		1, L0589: 1, H0668: 1, H0422: 1 and H0293: 1. AR089: 7, AR316: 6, AR060: 6 L0759: 11, L0748: 7, L0439: 7, L0749: 7, L0731: 4, H0553: 3, L0805: 3, L0809: 3, L0789: 3, L0750: 3, L0756: 3, L0771: 3, H0624: 2, L0471: 2, H0266: 2, H0494: 2, L0372: 2, L0803: 2, L0438: 2, H0521: 2, L0740: 2, H0423: 2, H0170: 1, H0171: 1, S0134: 1, S0360: 1, S0222: 1, H0441: 1, H0333: 1, H0013: 1, H0244: 1, H0251: 1, T0110: 1, H0046: 1, H0014: 1, H0032: 1, S0036: 1, T0042: 1, H0366: 1, S0306: 1, S0438: 1, S0440: 1, S0150: 1, L0598: 1, L0770: 1, L0637: 1, L0521: 1, L0662: 1, L0766: 1, L0804: 1, L0653: 1, L0512: 1, L0647: 1, L0790: 1, L0665: 1, H0144: 1, H0520: 1, H0593: 1, S0126: 1, H0690: 1, H0660: 1, H0666: 1, H0648: 1, S0380: 1, H0518: 1, S0404: 1, S0032: 1, L0751: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0589: 1, H0668: 1, H0422: 1 and H0293: 1.	
2131	HSJBB27	581089	2141	66 - 185	4738		AR060: 7, AR316: 5, AR089: 4 S0032: 2	
2132	HSKB003	839271	2142	79 - 141	4739		AR089: 19, AR316: 17, AR060: 14 H0392: 1, L0769: 1 and S0027: 1.	
2133	HSKCQ51	651376	2143	235 - 528	4740	Arg-30 to Leu-35, Gln-37 to Gly-45, Pro-61 to Arg-71.	AR162: 9, AR161: 9, AR163: 9, AR253: 9, AR192: 9, AR089: 8.	115665, 120550, 120570, 120575, 130500, 133200.

AR313: 3, AR210: 3, AR262: 3, AR215: 3, AR185: 3, AR233: 3, AR178: 3, AR255: 3, AR286: 3, AR282: 3, AR238: 3, AR294: 3, AR216: 3, AR231: 3, AR228: 2, AR235: 2, AR237: 2, AR180: 2, AR221: 2, AR226: 2, AR179: 2, AR033: 2, AR258: 2, AR182: 2, AR266: 2, AR227: 2, AR260: 2, AR061: 2, AR277: 2, AR267: 2, AR230: 2, AR232: 2, AR239: 2, AR217: 2, AR256: 2, AR171: 1, AR224: 1, AR214: 1, AR252: 1, AR169: 1, AR222: 1 L0751: 12, H0024: 6, H0545: 5, L0740: 5, S0002: 4, L0659: 4, L0747: 4, L0750: 4, L0757: 4, L0595: 4, H0333: 3, H0046: 3, H0620: 3, H0135: 3, L0809: 3, L0666: 3, L0754: 3, S0360: 2, S0222: 2, H0587: 2, H0632: 2, H0309: 2, H0546: 2, H0050: 2, H0012: 2, S0144: 2, L0769: 2, L0648: 2, L0662: 2, L0517: 2, L0664: 2, H0689: 2, H0696: 2, S0406: 2, L0744: 2, L0749: 2, L0752: 2, L0731: 2, S0434: 2, L0589: 2, S0001: 1, H0255: 1, H0662: 1, S0410: 1, H0549: 1, H0550: 1, H0441: 1, H0618: 1, H0251: 1, H0597: 1, H0041: 1, H0009: 1, H0566: 1, H0399: 1, H0239: 1, H0687: 1, T0023:

2135	HSKDS47	719749	2145	740 - 793	4742	<p>2, L0790: 2, L0792: 2, L0666: 2, L0664: 2, L0665: 2, H0435: 2, S0330: 2, H0696: 2, S0406: 2, S0028: 2, L0743: 2, L0740: 2, L0753: 2, S0434: 2, L0587: 2, H0423: 2, S0412: 2, H0394: 1, H0395: 1, H0536: 1, S0342: 1, S0134: 1, S0218: 1, L0002: 1, H0663: 1, S0354: 1, S0358: 1, S0045: 1, S0476: 1, L0717: 1, S0222: 1, H0441: 1, H0415: 1, H0574: 1, H0013: 1, H0635: 1, H0253: 1, S0010: 1, H0318: 1, S0049: 1, H0052: 1, H0251: 1, T0115: 1, H0046: 1, H0563: 1, H0024: 1, L0163: 1, H0083: 1, H0594: 1, S0214: 1, H0328: 1, H0644: 1, L0055: 1, H0673: 1, H0674: 1, S0036: 1, H0135: 1, H0616: 1, H0531: 1, H0412: 1, H0413: 1, T0042: 1, H0494: 1, H0561: 1, S0438: 1, S0422: 1, UNKNW: 1, L0369: 1, L0520: 1, L0625: 1, L0769: 1, L0637: 1, L0627: 1, L0772: 1, L0773: 1, L0521: 1, L0768: 1, L0522: 1, L0804: 1, L0650: 1, L0375: 1, L0606: 1, L0807: 1, L0656: 1, L0530: 1, L0788: 1, L4501: 1, L0663: 1, S0216: 1, S0374: 1, L0352: 1, H0659: 1, H0660: 1, H0648: 1, H0672: 1, S0328: 1, H0518: 1, H0436: 1, H0478: 1, S012: 1, S0027: 1, L0747: 1, L0749: 1, L0750: 1, L0780: 1, H0445: 1, L0592: 1, L0361: 1, S0192: 1, H0543: 1 and L0697: 1.</p>
						<p>AR060: 9, AR316: 7, AR089: 5</p>

2136	HSKHV81	841590	2146	183 - 293	4743			H0497: 1, S3014: 1 and L0779: 1.		
2137	HSKXB14	834517	2147	315 - 431	4744			AR089: 10, AR316: 9, AR060: 8 L0103: 2, S0206: 2, S0276: 2, S0001: 1, H0619: 1, H0392: 1, H0333: 1, H0050: 1, H0286: 1, H0628: 1, H0641: 1, L0770: 1, L0761: 1, L0794: 1, L0806: 1, L0776: 1, L0790: 1, L0792: 1, L0666: 1, H0144: 1, H0648: 1, H0539: 1, S0037: 1 and L0757: 1.		
2138	HSKYR49	806548	2148	2066 - 2311	4745	Met-1 to Ser-6, Pro-23 to His-28, His-35 to Gln-40, Gln-52 to Pro-59, Pro-63 to Ser-69.		AR060: 5, AR316: 5, AR089: 4 H0253: 4, H0038: 4, L0794: 4, L0748: 4, L0754: 4, H0677: 4, H0618: 3, H0616: 3, L0806: 3, L0758: 3, H0013: 2, S0150: 2, L0665: 2, L0439: 2, H0661: 1, S0418: 1, S0410: 1, S0007: 1, S0026: 1, S0300: 1, L0717: 1, H0050: 1, H0266: 1, H0622: 1, L0769: 1, L0637: 1, L0372: 1, L0805: 1, L0776: 1, L0790: 1, S0328: 1, S0206: 1, L0589: 1, H0665: 1 and H0422: 1.		
2139	HSKYU81	899335	2149	121 - 273	4746	Pro-21 to Lys-27, Thr-42 to Gln-49.		AR089: 7, AR060: 6, AR316: 5, AR214: 3, AR053: 3, AR282: 3, AR221: 3, AR176: 3, AR180: 3, AR224: 2, AR264: 2, AR308: 2, AR212: 2, AR205: 2, AR168: 2, AR216: 1, AR165: 1, AR252: 1, AR164: 1, AR213: 1, AR166: 1, AR217: 1, AR283: 1, AR299: 1.	12p12.3	103950, 200990, 602096

0950063 091203

							AR270: 1, AR181: 1, AR293: 1, AR169: 1, AR277: 1, AR193: 1, AR300: 1, AR236: 1, AR183: 1, AR196: 1, AR257: 1, AR172: 1 H0519: 7, H0521: 6, L0595: 6, S0276: 6, H0616: 5, L0593: 5, S0222: 4, H0265: 3, H0038: 3, H0040: 3, H0634: 3, L0770: 3, L0438: 3, H0547: 3, L0748: 3, L0731: 3, L0758: 3, H0624: 2, H0556: 2, S0114: 2, H0657: 2, S0418: 2, H0013: 2, H0156: 2, S0010: 2, H0581: 2, L0471: 2, H0024: 2, H0266: 2, H0031: 2, H0623: 2, H0100: 2, H0561: 2, H0529: 2, L0769: 2, L0776: 2, L0659: 2, L0666: 2, L0665: 2, H0520: 2, H0539: 2, L0439: 2, L0740: 2, L0754: 2, L0749: 2, L0780: 2, L0596: 2, H0542: 2, S0470: 1, S0040: 1, H0716: 1, H0295: 1, S0134: 1, H0656: 1, H0484: 1, S0420: 1, S0356: 1, S0358: 1, S0408: 1, H0637: 1, S0045: 1, L0717: 1, H0592: 1, S0005: 1, H0497: 1, H0574: 1, L0021: 1, H0599: 1, S0346: 1, H0421: 1, S0049: 1, L0032: 1, H0263: 1, H0596: 1, H0597: 1, H0457: 1, H0150: 1, H0009: 1, H0012: 1, H0083: 1, H0510: 1, S6028: 1, H0687: 1, S0003: 1, H0039: 1, T0006: 1, H0628: 1, L0456: 1, S0036: 1, H0135: 1, H0551: 1, H0412: 1, H0413: 1, H0202: 1, H0494: 1, S0464: 1, S0422: 1, S0002: 1, L0638: 1, L0761: 1, L0667: 1, L0646:
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2140	HSKY92	853384	2150	133 - 183	4747		1, L0800: 1, L0771: 1, L0521: 1, L0662: 1, L0805: 1, L0655: 1, L0657: 1, L0558: 1, L0647: 1, L0789: 1, L0663: 1, H0144: 1, H0670: 1, H0660: 1, H0648: 1, H0672: 1, H0518: 1, S0152: 1, H0134: 1, S0406: 1, H0436: 1, H0479: 1, S0432: 1, S0390: 1, S3014: 1, S0206: 1, S0032: 1, L0750: 1, L0753: 1, L0759: 1, S0260: 1, H0445: 1, S0026: 1, S0194: 1, H0423: 1 and H0721: 1.		
2141	HSLAB11	823825	2151	1409 - 1549	4748		AR060: 4, AR316: 4, AR089: 4 S0206: 1 L0754: 26, L0748: 16, L0740: 13, S0126: 8, S0028: 7, L0439: 7, S0222: 4, S0003: 4, S3014: 4, S0206: 4, H0051: 3, H0266: 3, H0031: 3, L0794: 3, S0152: 3, S0390: 3, S0027: 3, L0752: 3, L0591: 3, L0608: 3, H0341: 2, H0299: 2, T0039: 2, H0013: 2, H0036: 2, S0010: 2, H0123: 2, L0471: 2, S0256: 2, H0644: 2, H0169: 2, H0429: 2, L0803: 2, L0792: 2, L0438: 2, H0547: 2, S3012: 2, L0747: 2, S0260: 2, L0588: 2, H0171: 1, S0114: 1, S0212: 1, S0282: 1, S0400: 1, H0241: 1, H0402: 1, S0420: 1, S0358: 1, H0580: 1, H0586: 1, H0486: 1, T0040: 1, S0346: 1, L0157: 1, H0071: 1, T0010: 1, S6028: 1, H0687: 1, H0252: 1, T0006: 1, H0030: 1, H0553: 1, H0068: 1, S0036: 1, H0560: 1, H0509: 1, L0646: 1, L0659: 1, L0790: 1, H0519:		

2142	HSLAS96	740764	2152	99 - 179	4749		1, S0122: 1, H0659: 1, H0658: 1, S0380: 1, S0406: 1, L0745: 1, L0779: 1, L0757: 1, L0758: 1, H0595: 1, L0589: 1, H0653: 1, S0194: 1 and H0506: 1. AR089: 179, AR316: 152, AR060: 129 H0305: 2, S0134: 1, S0028: 1 and S0011: 1.
2143	HSLAW59	637669	2153	18 - 173	4750		S0033: 1 and S0028: 1.
2144	HSLCH54	562018	2154	58 - 243	4751	Ser-22 to Gly-34. Ala-21 to Val-28. Ser-54 to Met-60.	AR089: 19, AR316: 15, AR060: 12 S0028: 2, H0580: 1, H0261: 1, H0586: 1, H0050: 1, H0051: 1, H0594: 1, S0150: 1 and H0667: 1.
2145	HSLCH57	899415	2155	101 - 448	4752	Thr-108 to Pro-115.	AR089: 9, AR316: 8, AR060: 8 L0777: 7, S0358: 5, L0439: 5, L0751: 5, H0135: 4, H0265: 3, H0556: 3, L0770: 3, L0769: 3, L0662: 3, L0731: 3, H0305: 2, H0546: 2, H0083: 2, L0142: 2, S0208: 2, S0002: 2, L0768: 2, L0663: 2, L0665: 2, H0521: 2, L0741: 2, L0747: 2, L0779: 2, H0543: 2, H0149: 1, H0657: 1, S0116: 1, S0001: 1, H0663: 1, S0356: 1, S0354: 1, H0580: 1, S0045: 1, H0549: 1, S6014: 1, H0309: 1, H0085: 1, H0234: 1, H0597: 1, H0544: 1, H0123: 1, H0012: 1, H0024: 1, H0356: 1, H0594: 1, T0006: 1, H0424: 1, H0644: 1, H0182: 1, H0617: 1, L0055: 1, H0673: 1, H0169: 1, H0038: 1, H0040: 1, H0100: 1, L0351: 1, T0041: 1, H0561: 1, H0132: 1, L0763: 1, L0638: 1, L0637: 1, L0372: 1, L0765: 1.

2146	HSLC186	737626	2156	598 - 639	4753			1, L0648: 1, L0649: 1, L0774: 1, L0375: 1, L0807: 1, L0545: 1, L0329: 1, L0788: 1, L0666: 1, L0664: 1, S0374: 1, H0691: 1, H0658: 1, H0670: 1, H0666: 1, S0044: 1, S0028: 1, L0744: 1, L0749: 1, L0755: 1, L0758: 1, H0445: 1, L0593: 1 and H0352: 1.		
2147	HSLC331	604046	2157	13 - 1050	4754	Lys-51 to Lys-56, Asn-74 to Gln-81, Lys-187 to Asp-196, Val-275 to Lys-280, Thr-314 to Ser-320.		L0748: 12, H0144: 8, L0759: 4, L0471: 3, S0206: 3, L0750: 3, H0624: 2, H0013: 2, H0171: 1, S0402: 1, H0575: 1, H0163: 1, H0100: 1, S0390: 1, S0028: 1, L0777: 1 and L0755: 1.	5	
2148	HSLC334	751324	2158	61 - 384	4755	Asp-27 to Thr-32, Leu-64 to Trp-69.		AR060: 5, AR316: 4, AR089: 3, L0747: 5, L0750: 2, H0657: 1, H0263: 1, S0036: 1, T0042: 1, H0560: 1, L0764: 1, L0766: 1, L0774: 1, L0775: 1, L0658: 1, L0659: 1, L0664: 1, S0152: 1, S0028: 1, L0749: 1, L0777: 1, S0260: 1 and H0668: 1.		
2149	HSLCV16	772948	2159	965 - 1093	4756			L0777: 2, L0758: 2, S0212: 1, H0587: 1, H0551: 1, H0413: 1, L0376: 1, L0776: 1, L0659: 1, L0809: 1, H0520: 1, H0519: 1, H0631: 1, S0028: 1, L0777: 1, L0731: 1 and S0434: 1.		
								AR060: 6, AR316: 5, AR089: 3, L0439: 8, H0556: 6, L0766: 4, L0740: 4, S0420: 3, S0222: 3, L0749: 3, H0265: 2, S0418: 2, H0393: 2, T0039: 2, H0013: 2, H0012: 2, L0769: 2, L0768: 2, L0809: 2, L0565: 2, H0547: 2, S0126: 2, S0027: 2, L0743: 2, L0748: 2, L0751: 2, L0747: 2.		

2150	HSLDW54	853386	2160	153 - 362	4757	<p>2, L0779: 2, L0731: 2, L0758: 2, L0171: 1, T0002: 1, H0224: 1, H0657: 1, H0177: 1, H0402: 1, H0580: 1, H0600: 1, H0486: 1, L0021: 1, H0042: 1, S0010: 1, H0421: 1, H0196: 1, H0009: 1, L0471: 1, H0620: 1, H0024: 1, S0051: 1, H0594: 1, H0247: 1, H0266: 1, S0214: 1, S0364: 1, H0598: 1, H0135: 1, H0264: 1, H0413: 1, S0038: 1, L0370: 1, T0042: 1, H0334: 1, H0647: 1, L0763: 1, L0772: 1, L0372: 1, L0662: 1, L0805: 1, L0659: 1, L0518: 1, L0647: 1, H0697: 1, S0380: 1, H0518: 1, H0521: 1, S0146: 1, H0576: 1, S0028: 1, L0771: 1, L0752: 1, H0445: 1, H0595: 1, L0588: 1 and H0542: 1.</p>		
2150	HSLDW54	853386	2160	153 - 362	4757	<p>AR089: 9, AR316: 8, AR060: 8 S0002: 7, H0555: 7, L0748: 6, H0556: 5, S0222: 5, L0369: 5, H0179: 4, S0045: 3, H0427: 3, H0599: 3, H0271: 3, H0628: 3, H0598: 3, S0426: 3, L0766: 3, L0581: 3, H0265: 2, S0114: 2, S0212: 2, H0402: 2, S0354: 2, S0132: 2, H0370: 2, H0632: 2, H0575: 2, H0196: 2, H0050: 2, L0665: 2, H0521: 2, S0390: 2, S0028: 2, L0777: 2, S0040: 1, H0381: 1, S0116: 1, H0662: 1, S0442: 1, H0676: 1, H0580: 1, S0046: 1, L0717: 1, H0431: 1, H0586: 1, H0706: 1, H0036: 1, H0318: 1, S0474: 1, H0581: 1, H0309: 1, H0121: 1, H0375: 1, H0266: 1, H0252: 1, H0031: 1.</p>		

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2151	HSLEC18	722249	2161	270 - 1322	4758	Ala-42 to Pro-47, Pro-62 to His-68, Pro-83 to Asn-92, His-94 to Gln-103, Ala-111 to Asn-119, Thr-131 to Ile-137, Glu-246 to Arg-252, Ser-308 to Cys-315, Lys-326 to Phe-334, Lys-343 to Leu-348.	AR089: 18, AR316: 13, AR060: 8 H0255: 2, S0356: 2, S0028: 2, L0740: 2, S0040: 1, S0358: 1, H0281: 1, H0486: 1, H0009: 1, H0272: 1, L0776: 1, S0126: 1, S0037: 1, S0011: 1, H0667: 1 and H0352: 1.	
2152	HSLEG59	637671	2162	87 - 197	4759		L0794: 1 and S0028: 1.	
2153	HSLEP59	853388	2163	320 - 496	4760	Arg-21 to Cys-26, Pro-41 to Tyr-47, Val-50 to Lys-58.	AR291: 27, AR292: 23, AR285: 18, AR296: 16, AR298: 15, AR294: 15, AR284: 15, AR033: 14, AR182: 14, AR295: 14, AR293: 13, AR268: 12, AR286: 12, AR183: 11, AR259: 11, AR269: 11, AR290: 11, AR104: 11, AR258: 10, AR270: 10, AR289: 10, AR248: 10, AR253: 10, AR218: 10, AR175: 10, AR219: 9, AR186: 9, AR266: 8, AR256: 8, AR249: 8, AR313: 8, AR310: 8, AR179: 8, AR312: 8,	

2154	HSLGD91	883491	2164	70 - 87	4761	AR267: 7, AR238: 7, AR251: 7, AR185: 7, AR240: 7, AR184: 7, AR316: 7, AR309: 6, AR231: 6, AR060: 6, AR089: 6, AR096: 6, AR052: 6, AR299: 6, AR271: 5, AR282: 5, AR177: 5, AR226: 5, AR275: 5, AR237: 5, AR234: 5, AR192: 5, AR265: 4, AR280: 4, AR274: 4, AR273: 4, AR246: 4, AR229: 4, AR300: 4, AR277: 4, AR247: 3, AR283: 3, AR243: 3, AR053: 3, AR194: 3, AR206: 3, AR213: 3, AR061: 3, AR232: 3, AR055: 3, AR198: 2, AR233: 2, AR263: 2, AR227: 2, AR315: 2, AR039: 1, AR314: 1, AR205: 1, L0439: 5, L0744: 4, L0803: 3, L0766: 2, L0804: 2, L0659: 2, S0374: 2, L0438: 2, S0028: 2, L0756: 2, S0026: 2, S0001: 1, S0358: 1, S0376: 1, S6014: 1, H0574: 1, H0486: 1, H0013: 1, H0156: 1, H0575: 1, H0052: 1, H0596: 1, H0081: 1, S0003: 1, H0039: 1, H0553: 1, S0036: 1, L0598: 1, L0769: 1, L0638: 1, L0666: 1, L0663: 1, H0691: 1, S0330: 1, H0539: 1, H0436: 1, L0777: 1, L0752: 1, S0260: 1 and S0192: 1, L0748: 6, L0666: 5, L0665: 5, L0768: 4, L0773: 4, L0595:	
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2155	HSLGF66	596824	2165	226 - 258	4762	<p>4, H0352: 4, S0045: 3, H0124: 3, L0774: 3, S0028: 3, L0439: 3, L0756: 3, L0592: 3, S0376: 2, S0360: 2, H0619: 2, S0222: 2, H0633: 2, H0036: 2, H0052: 2, H0046: 2, L0041: 2, S0312: 2, H0651: 2, L0764: 2, L0663: 2, H0144: 2, L0751: 2, L0745: 2, L0731: 2, L0589: 2, H0653: 2, H0136: 2, H0216: 2, H0624: 1, S0024: 1, S0430: 1, H0656: 1, H0255: 1, S0046: 1, H0645: 1, H0370: 1, H0013: 1, H0156: 1, H0575: 1, H0050: 1, S0050: 1, H0373: 1, H0687: 1, S0314: 1, S0250: 1, H0031: 1, H0135: 1, H0634: 1, H0616: 1, H0380: 1, H0264: 1, H0433: 1, H0059: 1, L0351: 1, L0800: 1, L0662: 1, L0766: 1, L0803: 1, L0375: 1, L0655: 1, L0659: 1, L0783: 1, L0809: 1, L0664: 1, S0126: 1, H0648: 1, S0152: 1, H0521: 1, S0390: 1, S3014: 1, L0754: 1, L0749: 1, L0750: 1, L0758: 1, L0759: 1, S0260: 1 and L0366: 1.</p>		
						<p>L0777: 3, H0575: 2, H0413: 2, L0771: 2, H0518: 2, L0754: 2, L0779: 2, H0638: 1, S0354: 1, S0358: 1, S0360: 1, S0222: 1, L0021: 1, H0581: 1, S0214: 1, H0649: 1, L0770: 1, L0804: 1, L0805: 1, L0530: 1, L0663: 1, H0520: 1, S0028: 1, L0756: 1, S0434: 1, S0026: 1, H0423: 1 and H0422: 1.</p>		
2156	HSLGF70	741063	2166	890 - 982	4763	<p>AR060: 4, AR316: 4, AR089: 3, S0028: 2, H0497: 1, H0052:</p>		

2157	HSLGP68	853389	2167	166 - 246	4764		1, L0387: 1, L0805: 1, L0789: 1 and L0666: 1. AR060: 3, AR316: 2, AR089: 1 L0439: 10, S0010: 7, H0052: 6, L0769: 3, L0776: 3, S0028: 3, S0007: 2, L0742: 2, S0222: 1, S0049: 1, H0201: 1, L0351: 1, H0538: 1, L0630: 1, L0805: 1, L0789: 1, L0352: 1 and L0752: 1.		
2158	HSNAB88	600324	2168	262 - 309	4765		H0163: 1		
2159	HSNAH56	825116	2169	171 - 308	4766	Lys-2 to Trp-8.	AR060: 4, AR316: 3, AR089: 1 H0163: 1		
2160	HSNAN38	853391	2170	240 - 401	4767	Tyr-46 to Glu-53.	AR060: 9, AR316: 8, AR089: 7 L0754: 9, L0439: 6, L0438: 5, H0521: 4, L0770: 3, L0752: 3, L0600: 3, S0360: 2, H0574: 2, H0014: 2, S0003: 2, L0766: 2, S0126: 2, L0748: 2, L0756: 2, H0686: 1, S0298: 1, S0212: 1, S0110: 1, H0638: 1, S0420: 1, S0338: 1, S0444: 1, S0408: 1, S0222: 1, H0586: 1, H0575: 1, H0590: 1, S0010: 1, S0049: 1, H0052: 1, H0309: 1, H0544: 1, H0046: 1, L0471: 1, H0266: 1, H0031: 1, H0553: 1, H0644: 1, H0163: 1, H0090: 1, T0067: 1, T0069: 1, T0041: 1, S0440: 1, H0641: 1, S0426: 1, L0761: 1, L0372: 1, L0764: 1, L0768: 1, L0803: 1, L0804: 1, L0806: 1, L0659: 1, L0665: 1, S0374: 1, H0691: 1, S0148: 1, H0689: 1, H0682: 1, H0658: 1, H0670: 1, H0522: 1, S0406: 1, S0027: 1, L0755: 1, L0759: 1, S0011: 1.		

2161	HSNA019	638294	2171	226 - 240	4768		1. H0667: 1 and S0192: 1. AR089: 6, AR316: 6, AR060: 5 L0747: 17, L0752: 10, L0599: 10, L0750: 6, L0438: 5, L0439: 5, H0052: 3, L0598: 3, L0754: 3, H0632: 2, H0030: 2, L0764: 2, L0771: 2, H0648: 2, S0378: 2, L0748: 2, L0756: 2, L0759: 2, L0591: 2, S0242: 2, S0418: 1, S0376: 1, S0360: 1, H0574: 1, L0022: 1, H0184: 1, L0040: 1, H0597: 1, H0123: 1, L0471: 1, L0171: 1, H0687: 1, S0003: 1, L0141: 1, H0169: 1, H0124: 1, H0163: 1, H0087: 1, L0640: 1, L0373: 1, L0646: 1, L0378: 1, L0776: 1, L0783: 1, L0809: 1, L0532: 1, L0663: 1, L0664: 1, S0374: 1, S0328: 1, S0454: 1, S0432: 1, L0749: 1, L0731: 1 and S0276: 1.	113900, 126340, 126391, 130410, 134790, 138570, 169000, 173850, 191044, 258501, 600040, 600138, 602225, 602225
2162	HSNA052	600402	2172	218 - 247	4769		H0163: 1	
2163	HSNA078	825136	2173	25 - 165	4770	Glu-32 to Tyr-43.	H0163: 1	
2164	HSNAW06	580248	2174	174 - 212	4771		H0637: 1, H0163: 1, L0769: 1 and L0367: 1.	
2165	HSNAW37	600403	2175	237 - 323	4772		AR060: 6, AR316: 5, AR089: 3 H0163: 1	
2166	HSNB005	695758	2176	136 - 240	4773		S0276: 19, L0748: 10, H0556: 8, S0360: 8, L0757: 7, H0543: 7, L0438: 6, H0529: 5, H0519: 5, L0750: 5, S0278: 4, H0013: 4, H0009: 4, L0754: 4, L0749: 4, L0592: 4, H0265: 3, H0341: 3, S0045: 3, H0620: 3, S0050: 3, H0032: 3, T0041: 3, S0142: 3, S0152: 3, H0436: 3, L0740: 3, L0747: 3, L0756: 3,	120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145

2167	HSNBQ90	600330	2177	286 - 336	4774			S0406: 1, H0187: 1, H0478: 1, H0627: 1, H0631: 1, S0028: 1, L0741: 1, L0439: 1, L0753: 1, L0759: 1, S0031: 1, H0445: 1, L0588: 1, L0366: 1, S0026: 1, S0194: 1, H0542: 1, H0423: 1 and S0424: 1.	
2168	HSNBQ36	784994	2178	838 - 927	4775			H0163: 1 L0526: 3, H0624: 2, H0013: 2, H0427: 2, S0380: 2, L0745: 2, L0759: 2, H0170: 1, H0171: 1, S0408: 1, T0039: 1, H0051: 1, H0428: 1, H0163: 1, L0598: 1, L0763: 1, L0662: 1, L0774: 1, L0659: 1, L0663: 1, H0365: 1, H0555: 1 and H0542: 1.	14
2169	HSNBS39	617125	2179	190 - 234	4776			AR060: 4, AR316: 3, AR089: 2 H0163: 1 and L0747: 1.	
2170	HSOAE34	786645	2180	231 - 257	4777			H0265: 1, H0271: 1 and H0343: 1.	
2171	HSOAT44	847357	2181	31 - 198	4778		Thr-33 to Ala-43.	H0713: 9, H0717: 8, H0427: 3, L0769: 6, L0743: 6, L0744: 6, L0758: 5, H0716: 4, S0280: 4, H0052: 4, H0617: 4, L0771: 4, H0556: 3, H0036: 3, H0251: 3, H0046: 3, L0766: 3, L0774: 3, L0665: 3, L0748: 3, L0777: 3, L0757: 3, H0265: 2, S0358: 2, S0046: 2, S0132: 2, H0575: 2, H0546: 2, H0620: 2, H0165: 2, S0344: 2, S0002: 2, L0763: 2, L0761: 2, L0522: 2, L0659: 2, L0783: 2, H0521: 2, L0740: 2, L0749: 2, L0755: 2, H0445: 2, L0596: 2, L0592: 2, H0584: 1, H0685: 1, S0402: 1, H0295: 1, T0049: 1, S0134: 1, H0583: 1, H0657: 1, H0656: 1, H0484: 1.	3

2172	HSOBB94	838617	2182	565 - 732	4779	Lys-16 to Tyr-34.	1, H0254: 1, H0255: 1, H0661: 1, H0458: 1, S0418: 1, S0356: 1, S0376: 1, S0360: 1, H0492: 1, L0623: 1, H0486: 1, H0590: 1, H0253: 1, T0048: 1, T0071: 1, S0049: 1, T0001: 1, H0196: 1, H0309: 1, T0110: 1, H0012: 1, H0024: 1, H0284: 1, T0023: 1, H0181: 1, H0032: 1, H0383: 1, S0366: 1, H0090: 1, H0268: 1, H0412: 1, T0041: 1, H0509: 1, H0130: 1, H0633: 1, S0144: 1, S0422: 1, L0770: 1, L0638: 1, L0764: 1, L0773: 1, L0662: 1, L0794: 1, L0803: 1, L0804: 1, L0650: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0658: 1, L0384: 1, L0544: 1, L0529: 1, L0541: 1, L0647: 1, L0793: 1, L0664: 1, S0052: 1, S0428: 1, L0438: 1, H0520: 1, H0519: 1, H0658: 1, S0146: 1, H0555: 1, L0742: 1, L0439: 1, L0756: 1, L0779: 1, L0731: 1, H0343: 1, L0591: 1, S0106: 1, S0011: 1, S0026: 1, H0542: 1, H0543: 1, H0423: 1 and H0506: 1. L0439: 6, S0358: 4, L0766: 4, L0803: 4, L0804: 4, L0768: 2, L0794: 2, L0774: 2, L0791: 2, L0438: 2, L0742: 2, L0747: 2, L0750: 2, S0218: 1, L0481: 1, S0418: 1, S0360: 1, S0045: 1, H0640: 1, H0587: 1, H0486: 1, H0244: 1, H0083: 1, S0318: 1, T0023: 1, H0169: 1, S0366: 1, H0090: 1, H0591: 1, H0641: 1, H0529: 1, L0641: 1, L0662: 1, L0805: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, H0723:
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2173	HSOBH11	794000	2183	131 - 169	4780			1, S0152: 1, S0028: 1, L0740: 1, L0751: 1, L0779: 1, L0780: 1, L0752: 1, L0757: 1, L0759: 1, H0595: 1 and S0242: 1, H0595: 1		
2174	HSOBP75	778361	2184	438 - 569	4781		Phe-26 to Tyr-31, His-34 to Ser-43.	L0766: 5, L0527: 2, L0748: 2, L0749: 2, H0543: 2, S0212: 1, H0402: 1, H0156: 1, S0049: 1, H0477: 1, H0413: 1, L0776: 1, L0659: 1, L0544: 1, L0750: 1, L0777: 1, L0758: 1 and H0595: 1.		
2175	HSOBW65	778388	2185	387 - 443	4782			H0595: 1		
2176	HSPA89	825099	2186	252 - 419	4783			H0478: 1		
2177	HSPAC13	605047	2187	33 - 146	4784			L0749: 5, L0748: 4, L0740: 4, H0063: 3, L0758: 3, H0428: 2, L0768: 2, L0766: 2, L0774: 2, L0805: 2, L0755: 2, S0358: 1, L0717: 1, H0252: 1, L0483: 1, H0674: 1, H0633: 1, S0422: 1, L0803: 1, L0657: 1, L0438: 1, H0670: 1, S0380: 1, H0478: 1, L0756: 1, L0777: 1, L0780: 1 and S0192: 1.	11q23	107680, 107680, 107680, 107720, 133780, 147791, 159555, 168000, 186740, 186830, 188025, 203750, 261640, 600048, 601382, 602574, 602574
2178	HSPA G75	884779	2188	246 - 359	4785			AR089: 3, AR316: 3, AR060: 2, H0478: 1		
2179	HSPA120	588409	2189	261 - 395	4786		Ser-30 to Phe-40.	AR263: 6, AR251: 2, AR269: 2, AR274: 2, AR238: 2, AR277: 2, AR052: 2, AR282: 2, AR175: 2, AR198: 2, AR309: 2, AR247: 2, AR295: 2, AR229: 1, AR293: 1, AR312: 1, AR289: 1, AR053: 1, AR033: 1, AR273: 1, AR055: 1, AR296: 1, AR268: 1, AR184: 1.		

2180	HSPAL59	851816	2190	250 - 351	4787		AR183: 1, AR192: 1, AR270: 1, AR285: 1 S6026: 1, S0346: 1, H0015: 1, L0455: 1, H0478: 1, L0756: 1, L0752: 1 and L0758: 1, H0478: 20, H0486: 2, H0479: 2, L0762: 1, H0539: 1 and S0392: 1.	7q11.23	116860, 129900, 233700, 600079
2181	HSPAY90	827308	2191	190 - 339	4788		AR089: 48, AR316: 35, AR060: 23 L0748: 29, L0439: 21, L0666: 16, L0740: 16, L0757: 16, H0556: 14, L0747: 13, L0752: 13, L0596: 13, L0758: 12, H0547: 10, L0754: 10, L0731: 10, L0659: 9, L0749: 9, L0750: 9, L0601: 9, H0550: 8, L0662: 8, H0265: 7, S0420: 7, H0494: 7, L0776: 7, L0664: 7, L0751: 7, S0046: 6, H0486: 6, H0013: 6, H0575: 6, H0135: 6, H0040: 6, L0769: 6, L0761: 6, L0771: 6, L0777: 6, S0418: 5, S0360: 5, H0208: 5, S0132: 5, H0549: 5, H0370: 5, H0587: 5, L0471: 5, H0083: 5, H0617: 5, H0529: 5, L0809: 5, L0663: 5, L0438: 5, H0519: 5, H0670: 5, S0406: 5, H0436: 5, L0595: 5, H0624: 4, H0686: 4, H0483: 4, S0358: 4, S0410: 4, L0717: 4, H0559: 4, H0050: 4, T0010: 4, H0266: 4, L0763: 4, L0637: 4, L0766: 4, L0665: 4, H0144: 4, H0658: 4, S3014: 4, L0605: 4, H0657: 3, H0341: 3, S0376: 3, S0045: 3, H0619: 3, S0222: 3, H0431: 3, T0039: 3, H0318: 3, H0052: 3, H0327: 3, H0545: 3, H0024: 3, H0014: 3, H0644:		

2182	HSPMF63	815251	2192	179 - 280	4789	<p>1, S0346: 1, S0474: 1, H0581: 1, H0194: 1, H0251: 1, H0085: 1, L0738: 1, H0544: 1, H0150: 1, H0009: 1, H0178: 1, H0123: 1, H0012: 1, H0620: 1, H0057: 1, H0051: 1, H0201: 1, S0388: 1, H0510: 1, H0375: 1, H0179: 1, H0271: 1, S0340: 1, S0022: 1, H0039: 1, H0622: 1, H0553: 1, H0628: 1, H0673: 1, H0674: 1, S0364: 1, L0456: 1, S0366: 1, H0090: 1, H0551: 1, T0067: 1, H0413: 1, H0036: 1, L0351: 1, S0448: 1, S0306: 1, S0440: 1, H0132: 1, H0641: 1, H0646: 1, S0422: 1, UNKNWN: 1, H0026: 1, L0371: 1, L0631: 1, L0638: 1, L0641: 1, L0767: 1, L0649: 1, L0522: 1, L0650: 1, L0805: 1, L0654: 1, L0661: 1, L0629: 1, L0807: 1, L0636: 1, L0517: 1, L0518: 1, L0783: 1, L0367: 1, L0791: 1, S0428: 1, S0053: 1, H0702: 1, L0565: 1, L0352: 1, S0122: 1, H0690: 1, H0684: 1, H0660: 1, H0539: 1, S0380: 1, H0710: 1, S0146: 1, H0555: 1, S0206: 1, L0744: 1, H0445: 1, L0589: 1, L0592: 1, L0593: 1, L0594: 1, S0011: 1, H0136: 1, H0543: 1, H0423: 1 and H0422: 1.</p>
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2183	HSQAC69	876528	2193	671 - 808	4790					2, L0759: 2, L0588: 2, L0589: 2, S0026: 2, L0170: 1, H0685: 1, S0040: 1, S0358: 1, H0339: 1, H0229: 1, H0370: 1, H0632: 1, H0013: 1, S0280: 1, H0590: 1, H0581: 1, H0231: 1, H0009: 1, H0051: 1, H0166: 1, L0640: 1, L0638: 1, L0764: 1, L0662: 1, L0375: 1, L0789: 1, L0663: 1, L0665: 1, H0659: 1, H0670: 1, H0648: 1, H0539: 1, S0188: 1, H0479: 1, L0752: 1, L0591: 1 and L0594: 1. L0766: 8, S0360: 5, L0748: 5, L0756: 3, L0666: 4, L0665: 4, L0770: 3, L0752: 3, H0657: 2, H0656: 2, H0581: 2, H0596: 2, H0563: 2, S0003: 2, H0328: 2, L0803: 2, L0655: 2, H0670: 2, L0731: 2, S0436: 2, S0026: 2, H0170: 1, H0556: 1, H0344: 1, H0650: 1, H0638: 1, S0420: 1, H0675: 1, H0637: 1, S0007: 1, H0574: 1, H0632: 1, H0013: 1, H0036: 1, S0010: 1, H0318: 1, H0052: 1, H0251: 1, H0150: 1, H0050: 1, H0090: 1, H0038: 1, S0440: 1, H0130: 1, S0142: 1, S0422: 1, H0529: 1, L0638: 1, L0662: 1, L0768: 1, L0794: 1, L0659: 1, L0792: 1, S0428: 1, S0126: 1, H0689: 1, H0648: 1, H0672: 1, S0330: 1, H0539: 1, S0378: 1, H0521: 1, H0522: 1, H0696: 1, S0404: 1, S0406: 1, H0478: 1, L0744: 1, L0754: 1, L0779: 1, L0777: 1, L0753: 1, L0755: 1, L0758: 1, L0759: 1, S0260: 1, H0445: 1, H0343: 1, H0595: 1, S0434: 1, H0423:
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2184	HSQAHI4	824077	2194	267 - 308	4791	I and SM24-1	10q25	167409, 278000, 278000, 600020, 600095, 602669, 602669
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2186	HSQBL20	780518	2196	183 - 836	4793	Ile-18 to Asp-25, Gln-34 to Asn-40, His-93 to Ile-99, Gln-192 to Pro-198.	1, L0662: 1, L0804: 1, L0655: 1, L0515: 1, L0384: 1, L0788: 1, H0520: 1, H0547: 1, H0648: 1, H0672: 1, S0380: 1, S012: 1, S0027: 1, L0741: 1, L0758: 1, L0599: 1, S0026: 1 and S0424: 1.	19q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 173850, 207750, 248600, 258501
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2190	HSQEG23	829137	2200	302 - 370	4797		<p>2, L0768: 2, L0809: 2, L0789: 2, L0663: 2, H0547: 2, H0658: 2, H0648: 2, S0206: 2, L0747: 2, L0731: 2, H0423: 2, H0686: 1, L0002: 1, S0116: 1, H0662: 1, S0418: 1, L0005: 1, S0358: 1, S0376: 1, H0351: 1, S0222: 1, H0612: 1, H0587: 1, H0574: 1, T0114: 1, H0635: 1, H0427: 1, H0575: 1, H0590: 1, H0004: 1, H0253: 1, H0041: 1, H0567: 1, H0569: 1, H0123: 1, H0024: 1, S0028: 1, H0252: 1, H0688: 1, L0483: 1, H0030: 1, H0628: 1, L0055: 1, H0040: 1, H0379: 1, H0059: 1, S0464: 1, S0450: 1, S0440: 1, H0132: 1, S0210: 1, L0637: 1, L0761: 1, L0667: 1, L0643: 1, L0764: 1, L0364: 1, L0649: 1, L0650: 1, L0774: 1, L0375: 1, L0805: 1, L0653: 1, L0655: 1, L0783: 1, L4501: 1, L0664: 1, L0438: 1, L0352: 1, H0519: 1, S0126: 1, H0660: 1, H0666: 1, H0539: 1, H0522: 1, H0478: 1, S0028: 1, S0032: 1, L0745: 1, L0750: 1, L0779: 1, L0780: 1, L0753: 1, H0445: 1, S0434: 1, S0436: 1, L0608: 1, S0026: 1, S0242: 1 and S0452: 1.</p>
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2191	HSQEG47	771527	2201	1001 - 1039	4798		1, UNKWN: 1, L0763: 1, L0662: 1, L0363: 1, L0774: 1, L0805: 1, L0652: 1, S0328: 1, S0152: 1, S0432: 1, S0390: 1, L0742: 1, L0740: 1, L0754: 1, L0779: 1, L0758: 1, L0684: 1, L0589: 1, L0608: 1, S0026: 1 and S0242: 1. AR089: 69, AR316: 64, AR060: 59 L0766: 6, L0749: 6, L0742: 5, L0779: 5, L0748: 4, L0439: 4, L0794: 3, L0740: 3, H0171: 2, H0586: 2, L0659: 2, L0754: 2, L0753: 2, L0731: 2, L0758: 2, H0624: 1, H0657: 1, H0341: 1, S0282: 1, S0418: 1, S0354: 1, S0408: 1, H0411: 1, S0022: 1, S0222: 1, H0013: 1, L0021: 1, H0044: 1, H0327: 1, H0457: 1, H0014: 1, H0051: 1, S0028: 1, H0266: 1, S0003: 1, S0214: 1, H0688: 1, H0428: 1, H0068: 1, H0616: 1, S0344: 1, S0002: 1, L0796: 1, L0764: 1, L0662: 1, L0775: 1, L0375: 1, L0784: 1, L0607: 1, L0657: 1, L0636: 1, L0788: 1, L0789: 1, H0144: 1, H0701: 1, H0547: 1, H0670: 1, H0539: 1, L0777: 1, L0759: 1, S0434: 1, L0581: 1, S0026: 1, H0665: 1 and H0422: 1. L0748: 19, L0770: 10, L0500: 9, L0771: 8, L0509: 8, L0749: 6, L0758: 6, H0318: 4, L0764: 4, L0665: 4, L0438: 4, L0745: 4, L0759: 4, S0002: 3, L0506: 3, L0503: 3, L0766: 3, L0776: 3, L0493: 3, L0666: 3, H0659: 3, L0744: 3, L0752: 3.	10cen-q26.11
2192	HSQFE72	826311	2202	93 - 173	4799			

2193	HSQFE76	853394	2203	31 - 126	4800	Val-23 to Gln-31.	L0581: 3, H0543: 3, H0650: 2, H0657: 2, S0212: 2, S0360: 2, H0581: 2, H0652: 2, H0428: 2, H0031: 2, H0653: 2, H0090: 2, H0591: 2, L0502: 2, L0801: 2, L0800: 2, L0497: 2, L0803: 2, L0657: 2, L0514: 2, L0511: 2, H0539: 2, H0521: 2, S0404: 2, H0555: 2, L0747: 2, L0779: 2, L0599: 2, S0026: 2, H0624: 1, S0470: 1, S0040: 1, S0001: 1, H0483: 1, H0663: 1, S0418: 1, S0420: 1, S0358: 1, S0408: 1, H0619: 1, L0717: 1, S0278: 1, H0261: 1, H0549: 1, H0550: 1, S0222: 1, H0497: 1, H0333: 1, H0331: 1, H0486: 1, H0013: 1, H0069: 1, S0049: 1, H0009: 1, L0471: 1, H0373: 1, S0051: 1, H0239: 1, H0179: 1, S0003: 1, H0328: 1, H0213: 1, S0364: 1, H0068: 1, H0316: 1, H0038: 1, H0040: 1, H0488: 1, T0041: 1, L0475: 1, L0065: 1, S0438: 1, L0598: 1, L0638: 1, L0761: 1, L0772: 1, L0373: 1, L0641: 1, L0649: 1, L0804: 1, L0774: 1, L0375: 1, L0508: 1, L0655: 1, L0515: 1, L0659: 1, L0783: 1, L0384: 1, L0519: 1, L0663: 1, H0648: 1, H0672: 1, S0380: 1, H0696: 1, L0743: 1, L0439: 1, L0780: 1, L0755: 1, H0445: 1, S0434: 1 and L0697: 1.
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2194	HSQFV12	604964	2204	267 - 359	4801	Glu-16 to Tyr-21.	
2195	HSRAA81	695759	2205	235 - 366	4802		106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858,

2196	HSRAO56	719816	2206	131 - 193	4803		<p>2, L0588: 2, L0604: 2, H0265: 1, H0383: 1, S0116: 1, S0212: 1, S0442: 1, S0132: 1, H0351: 1, H0369: 1, H0441: 1, H0013: 1, S0010: 1, H0327: 1, H0046: 1, H0015: 1, H0051: 1, S0051: 1, H0010: 1, L0055: 1, H0361: 1, S0366: 1, H0135: 1, H0090: 1, H0040: 1, H0063: 1, H0477: 1, H0059: 1, H0102: 1, H0649: 1, H0529: 1, L0769: 1, L0372: 1, L0771: 1, L0766: 1, L0375: 1, L0806: 1, L0805: 1, L0657: 1, L0659: 1, L0789: 1, L0666: 1, L0663: 1, L0438: 1, H0593: 1, H0435: 1, H0648: 1, H0651: 1, S0330: 1, S0380: 1, H0436: 1, L0751: 1, L0756: 1, L0731: 1, L0596: 1, L0589: 1, L0592: 1, S0011: 1, S0026: 1, S0276: 1 and H0423: 1.</p>	<p>150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600281, 601868, 602280, 602475</p>
2197	HSRAV28	581102	2207	301 - 345	4804	Leu-1 to Gly-7.	<p>S0011: 3, H0306: 1, H0402: 1, L0004: 1, H0486: 1, H0050: 1, S0051: 1, H0494: 1 and S0002: 1.</p> <p>AR089: 18, AR316: 13, AR060: 8</p> <p>S0136: 6, L0794: 2, H0231: 1, L0520: 1, L0809: 1, H0539: 1 and S0011: 1.</p>	
2198	HSRDM56	601693	2208	134 - 355	4805		<p>L0749: 10, L0766: 9, L0777: 8, L0747: 7, L0803: 6, L0459: 6, L0794: 5, S0126: 5, H0265: 4, L0748: 4, L0749: 4, L0596: 4, H0580: 3, H0591: 3, L0774: 3, L0755: 3, L0757: 3, L0758: 3, H0305: 2, T0039: 2, L0471: 2, S0250: 2, H0622: 2, S0306: 2, L0763: 2, L0662: 2, L0809: 2, H0547: 2, H0521: 2, L0754: 2.</p>	<p>126600, 136435</p>

2199	HSRDW57	562019	2209	8 - 361	4806	<p>Ser-29 to Gly-36, Leu-72 to Gly-89, Pro-100 to Trp-113.</p>	<p>2, L0756: 2, L0752: 2, L0590: 2, S0192: 2, H0543: 2, H0556: 1, H0686: 1, S0040: 1, S0218: 1, H0656: 1, H0662: 1, S0358: 1, S0360: 1, S0007: 1, S0046: 1, H0261: 1, H0013: 1, H0635: 1, H0581: 1, H0052: 1, H0544: 1, H0546: 1, H0510: 1, H0267: 1, H0284: 1, S0022: 1, H0328: 1, H0615: 1, H0428: 1, H0031: 1, H0090: 1, H0616: 1, H0623: 1, L0564: 1, T0042: 1, H0494: 1, S0144: 1, S0210: 1, L0598: 1, L0369: 1, L0770: 1, L0761: 1, L0764: 1, L0768: 1, L0804: 1, L0775: 1, L0806: 1, L0657: 1, L0513: 1, L0541: 1, L0787: 1, L0788: 1, L0663: 1, L0664: 1, H0144: 1, S014: 1, L0744: 1, L0750: 1, L0779: 1 and L0731: 1.</p>		
2199	HSRDW57	562019	2209	8 - 361	4806	<p>Ser-29 to Gly-36, Leu-72 to Gly-89, Pro-100 to Trp-113.</p>	<p>AR089: 14, AR316: 13, AR060: 12 L0751: 7, L0758: 5, L0766: 4, H0250: 3, H0556: 2, H0544: 2, L0769: 2, L0747: 2, H0422: 2, H0265: 1, S0114: 1, S0134: 1, S0116: 1, H0663: 1, S0132: 1, H0586: 1, H0069: 1, H0427: 1, H0309: 1, H0150: 1, H0041: 1, H0510: 1, H0594: 1, S0022: 1, H0606: 1, S0036: 1, H0087: 1, T0042: 1, H0494: 1, L0475: 1, S0438: 1, H0641: 1, S0422: 1, L0771: 1, L0662: 1, L0655: 1, L0783: 1, L0792: 1, L0663: 1, H0672: 1, H0539: 1, S0152: 1, H0187: 1, L0750: 1, H0445: 1, S0434: 1, H0542: 1 and S0424: 1.</p>	12	

2200	HSREC72	601368	2210	172 - 276	4807	Arg-26 to Glu-34.	H0625: 1, S0011: 1 and H0352: 1.	H0625: 1, S0011: 1 and H0352: 1
2201	HSREG42	839481	2211	730 - 813	4808	Ala-2 to Arg-16.	L0747: 24, L0591: 17, L0794: 16, L0777: 15, L0588: 10, L0750: 9, L0595: 9, S0046: 8, H0013: 8, T0040: 7, L0748: 7, L0731: 7, H0619: 6, L0663: 6, S0212: 5, H0123: 5, L0471: 5, H0024: 5, S014: 5, L0754: 5, L0717: 4, H0333: 4, H0124: 4, L0770: 4, L0800: 4, L0375: 4, H0144: 4, L0749: 4, L0757: 4, L0759: 4, H0170: 3, S0360: 3, H0208: 3, H0178: 3, H0050: 3, H0551: 3, H0100: 3, H0494: 3, L0763: 3, L0641: 3, L0768: 3, L0766: 3, L0804: 3, L0659: 3, L0789: 3, S0126: 3, S0037: 3, S0027: 3, S0028: 3, L0740: 3, L0595: 3, S0011: 3, H0624: 2, S0040: 2, H0295: 2, S0045: 2, H0645: 2, H0427: 2, H0599: 2, H0544: 2, H0546: 2, H0012: 2, H0594: 2, S0250: 2, H0428: 2, H0038: 2, L0564: 2, S0210: 2, L0771: 2, L0662: 2, L0767: 2, L0776: 2, L0606: 2, L0783: 2, L0809: 2, H0555: 2, L0741: 2, L0744: 2, L0605: 2, L0592: 2, L0593: 2, H0171: 1, H0716: 1, T0049: 1, H0661: 1, S0420: 1, S0602: 1, H0369: 1, H0550: 1, H0370: 1, H0485: 1, H0486: 1, T0039: 1, L0021: 1, H0097: 1, H0309: 1, H0545: 1, H0009: 1, H0081: 1, H0620: 1, H0023: 1, H0057: 1, H0154: 1, H0014: 1, H0015: 1, H0083: 1, H0266: 1, H0188: 1, H0687: 1, H0288: 1, H0286: 1, H0039: 1	2pter-p25.1

2202	HSRFD18	840771	2212	67 - 153	4809	<p> H0622: 1, L0483: 1, H0644: 1, H0617: 1, H0673: 1, H0591: 1, H0087: 1, H0268: 1, H0269: 1, H0412: 1, H0056: 1, H0623: 1, S0440: 1, H0652: 1, L0769: 1, L0373: 1, L0764: 1, L0773: 1, L0521: 1, L0363: 1, L0649: 1, L0377: 1, L0388: 1, L0803: 1, L0775: 1, L0523: 1, L0806: 1, L0805: 1, L0653: 1, L0656: 1, L0558: 1, L0647: 1, L0664: 1, L0565: 1, H0547: 1, H0435: 1, H0639: 1, H0670: 1, H0672: 1, S0380: 1, S0152: 1, H0704: 1, S3012: 1, S0206: 1, L0786: 1, L0758: 1, H0595: 1, L0589: 1, L0603: 1, H0665: 1, S0242: 1, S0276: 1 and H0352: 1. L0754: 10, H0486: 5, S0022: 4, L0803: 4, L0748: 4, L0747: 4, L0591: 4, L0766: 3, L0526: 3, L0665: 3, S0212: 2, S0360: 2, S0222: 2, H0596: 2, L0471: 2, H0166: 2, H0509: 2, L0646: 2, L0662: 2, L0805: 2, L0659: 2, L0666: 2, L0664: 2, S0374: 2, L0779: 2, L0771: 2, L0739: 2, H0624: 1, H0170: 1, H0671: 1, H0663: 1, H0402: 1, H0305: 1, H0329: 1, H0581: 1, H0421: 1, H0194: 1, H0263: 1, H0597: 1, H0024: 1, H0355: 1, H0510: 1, H0687: 1, H0615: 1, L0483: 1, H0553: 1, H0644: 1, H0673: 1, H0674: 1, H0100: 1, S0450: 1, L0763: 1, L0649: 1, L0776: 1, L0518: 1, L0791: 1, L0663: 1, H0670: 1, H0555: 1, H0478: 1, L0780: 1, S0276: 1 and H0543: 1. </p>
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2203	HSRGZ11	801929	2213	208 - 252	4810		AR060: 8, AR316: 7, AR089: 6 L0731: 15, L0752: 12, L0758: 9, L0766: 8, L0769: 7, L0750: 7, S0022: 6, L0776: 6, L0753: 4, L0759: 4, H0585: 3, H0620: 3, H0617: 3, L0742: 3, L0754: 3, L0747: 3, L0731: 3, H0556: 2, H0657: 2, S0360: 2, L0763: 2, L0761: 2, L0774: 2, L0540: 2, L0743: 2, L0748: 2, L0780: 2, L0601: 2, H0422: 2, H0265: 1, H0159: 1, S0114: 1, S0116: 1, S0356: 1, S0007: 1, H0550: 1, H0559: 1, L0623: 1, H0545: 1, H0051: 1, S0028: 1, H0179: 1, H0628: 1, H0063: 1, T0041: 1, S0002: 1, L0796: 1, L0772: 1, L0373: 1, L0764: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0775: 1, L0806: 1, L0807: 1, L0512: 1, L0783: 1, L0787: 1, L0666: 1, S0126: 1, H0689: 1, H0659: 1, S0378: 1, S0152: 1, S0406: 1, H0436: 1, H0345: 1, L0749: 1, L0097: 1 and S0424: 1.	20p13	192340, 234200
2204	HSRHB59	840384	2214	308 - 478	4811	Pro-20 to Ala-25, Lys-41 to Ser-55.	AR089: 22, AR316: 21, AR060: 21 S0022: 12, L0747: 10, S0474: 9, L0758: 7, L0769: 6, L0740: 6, L0754: 6, L0755: 6, L0659: 5, S0126: 3, H0521: 5, H0556: 4, S0358: 4, H0599: 4, H0124: 4, L0766: 4, L0439: 4, L0731: 4, L0485: 4, S0360: 3, H0266: 3, H0616: 3, H0087: 3, S0144: 3, S0142: 3, L0662: 3, L0382: 3, L0809: 3, L0543: 3, L0664: 3, S0152: 3, L0779: 3.	11cen-q12.1	

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2205	HSSAN03	598717	2215	130 - 249	4812	<p>H0522: 1, H0696: 1, S0044: 1, H0134: 1, H0555: 1, H0436: 1, H0478: 1, S3012: 1, S3014: 1, S0027: 1, S0028: 1, S0032: 1, L0741: 1, L0744: 1, L0759: 1, L0592: 1, H0663: 1, S0276: 1 and S0424: 1.</p> <p>L0599: 5, L0766: 4, H0592: 3, L0803: 3, S0370: 2, L0759: 2, L0590: 2, L0604: 2, H0506: 2, S0116: 1, H0341: 1, S0360: 1, H0411: 1, S0278: 1, H0586: 1, H0486: 1, H0375: 1, H0266: 1, S0214: 1, H0615: 1, H0688: 1, H0428: 1, L0483: 1, H0135: 1, H0641: 1, L0649: 1, L0804: 1, L0774: 1, L0805: 1, L0776: 1, L0663: 1, L0664: 1, L0665: 1, H0682: 1, H0648: 1, S0406: 1, S0434: 1, S0436: 1 and L0362: 1.</p>	
2206	HSSCC66	559402	2216	174 - 284	4813	<p>AR271: 6, AR313: 5, AR309: 4, AR198: 4, AR052: 3, AR267: 3, AR183: 3, AR251: 3, AR206: 3, AR184: 3, AR202: 3, AR039: 3, AR253: 3, AR265: 3, AR186: 3, AR291: 3, AR312: 2, AR243: 2, AR060: 2, AR089: 2, AR233: 2, AR055: 2, AR237: 2, AR299: 2, AR061: 2, AR227: 2, AR282: 2, AR266: 2, AR270: 2, AR298: 2, AR277: 2, AR292: 2, AR293: 2, AR234: 2, AR177: 2, AR295: 2, AR316: 2, AR286: 2.</p>	Pro-24 to Leu-29.

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2207	HSSDI13	580877	2217	107 - 217	4814			H0135: 1			116860, 126650, 126650, 129900, 133170, 154276, 173360, 173360, 602136, 602136, 602136, 602447
2208	HSSDQ20	824813	2218	261 - 539	4815			S0010: 1, H0135: 1, L0766: 1, L0745: 1, L0779: 1 and L0758: 1.	7q21-q22		
2209	HSSDX38	824825	2219	244 - 312	4816			H0135: 1	20		
2210	HSSD57	637675	2220	191 - 403	4817	Ala-36 to His-43.		L0809: 6, L0794: 4, L0803: 4, L0665: 4, L0662: 3, H0556: 2, H0662: 2, S0358: 2, L0651: 2, L0805: 2, L0659: 2, L0517: 2, L0742: 2, L0777: 2, H0265: 1, H0657: 1, L0394: 1, H0642: 1, H0486: 1, L0021: 1, H0544: 1, H0266: 1, H0288: 1, H0628: 1, S0036: 1, H0135: 1, H0040: 1, H0494: 1, H0560: 1, S0440: 1, L0769: 1, L0796: 1, L0764: 1, L0804: 1, L0775: 1, L0607: 1, L0636: 1, L0783: 1, L0666: 1, L0663: 1, H0520: 1, H0689: 1, L0748: 1, L0751: 1, L0754: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0758: 1 and L0759: 1.			

2211	HSSEI.28	838618	2221	166 - 249	4818	Ser-17 to Cys-22.	AR313: 18, AR219: 15, AR218: 14, AR096: 12, AR248: 12, AR089: 12, AR299: 11, AR293: 11, AR258: 11, AR253: 11, AR183: 10, AR052: 10, AR292: 10, AR175: 9, AR249: 9, AR247: 9, AR060: 9, AR033: 9, AR186: 8, AR316: 8, AR177: 8, AR269: 8, AR055: 8, AR295: 7, AR270: 7, AR312: 7, AR294: 7, AR240: 7, AR244: 7, AR259: 7, AR300: 6, AR310: 6, AR267: 6, AR213: 6, AR282: 6, AR185: 6, AR268: 6, AR053: 6, AR314: 6, AR265: 6, AR315: 6, AR275: 5, AR280: 5, AR233: 5, AR263: 5, AR256: 5, AR273: 5, AR184: 5, AR290: 4, AR266: 4, AR182: 4, AR277: 4, AR179: 4, AR205: 4, AR246: 4, AR061: 4, AR296: 3, AR104: 3, AR283: 3, AR238: 3, AR309: 3, AR271: 3, AR291: 3, AR192: 3, AR039: 3, AR229: 3, AR234: 3, AR204: 3, AR198: 3, AR231: 3, AR226: 3, AR237: 3, AR298: 2, AR284: 2, AR274: 2, AR286: 2, AR289: 2, AR285: 2, AR277: 2, AR241: 2.
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2213	HSSGS62	741162	2223	249 - 416	4820	Glu-18 to Ser-27, Tyr-46 to Lys-55.	L0369: 1, L0763: 1, L0769: 1, L5565: 1, L0667: 1, L0646: 1, L0643: 1, L0648: 1, L0649: 1, L0774: 1, L0775: 1, L0375: 1, L0681: 1, L0683: 1, L0688: 1, L0383: 1, L0663: 1, H0519: 1, H0638: 1, H0670: 1, H0648: 1, H0696: 1, H0134: 1, H0555: 1, H0576: 1, S0314: 1, S0032: 1, L0745: 1, L0749: 1, L0731: 1, H0445: 1, S0434: 1, L0581: 1, L0361: 1, H0668: 1, S0276: 1, L0469: 1, H0422: 1 and S0460: 1.			
2214	HSSJA23	847089	2224	261 - 344	4821		H0428: 1 and H0135: 1. L0794: 3, L0766: 2, H0624: 1, H0171: 1, S0007: 1, H0370: 1, T0010: 1, H0135: 1, L0790: 1 and H0214: 1.			
2215	HSSIF26	567431	2225	177 - 392	4822	Gln-40 to Ser-52.	H0135: 1			
2216	HSSIF96	853396	2226	14 - 187	4823	Ser-19 to Gln-24, Asp-50 to Pro-57.	H0135: 1 and L0592: 1.			
2217	HSSIM47	796096	2227	151 - 159	4824		H0009: 6, H0052: 5, H0265: 4, L0534: 4, L0779: 4, H0341: 3, H0402: 3, H0619: 3, H0618: 3, H0135: 3, L0748: 3, H0543: 3, H0556: 2, H0662: 2, S0354: 2, S0360: 2, S0046: 2, H0069: 2, H0599: 2, S0142: 2, H0529: 2, H0624: 1, S0114: 1, S0134: 1, H0650: 1, H0255: 1, H0306: 1, H0449: 1, L0539: 1, S0045: 1, H0261: 1, S0222: 1, H0370: 1, H0438: 1, H0586: 1, H0587: 1, H0333: 1, H0492: 1, H0253: 1, H0318: 1, H0581: 1, H0309: 1, H0530: 1, H0457: 1, H0566: 1, H0050: 1, H0373: 1, S0388: 1, H0860, 129900, 154276, 171050, 171060, 233700, 600079, 602136, 602136, 602136, 602447			

2218	HSSJW30	779822	2228	713 - 787	4825			1, H0039: 1, H0031: 1, H0124: 1, H0087: 1, S0150: 1, S0344: 1, S0426: 1, L0763: 1, L0769: 1, L0772: 1, L0771: 1, L0804: 1, L0774: 1, L0775: 1, L0666: 1, H0435: 1, H0539: 1, H0521: 1, H0696: 1, H0436: 1, S014: 1, L0751: 1, L0747: 1, L0749: 1, L0731: 1, L0758: 1, L0759: 1, S0031: 1, L0599: 1, L0601: 1, H0542: 1, H0423: 1, L0462: 1 and H0352: 1.		
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2219	HSSJW30	850566	2229	928 - 1002	4826		<p>1, H0684: 1, H0670: 1, S0152: 1, H0696: 1, S0406: 1, H0576: 1, S0027: 1, L0740: 1, L0747: 1, L0779: 1, L0757: 1, S0436: 1, H0543: 1 and S0460: 1.</p> <p>AR060: 2, AR316: 1, AR089: 1</p> <p>H0617: 7, L0751: 6, S0360: 5, H0218: 4, H0052: 4, L0769: 4, L0499: 4, L0438: 4, S0404: 4, L0731: 4, S0358: 3, L0803: 3, L0809: 3, H0144: 3, H0657: 2, H0341: 2, H0255: 2, H0013: 2, H0253: 2, L0637: 2, L0794: 2, L0766: 2, L0774: 2, L0783: 2, H0593: 2, S0126: 2, H0555: 2, L0439: 2, L0758: 2, H0556: 1, H0636: 1, H0685: 1, H0254: 1, H0663: 1, H0662: 1, H0458: 1, S0418: 1, H0675: 1, S0222: 1, H0574: 1, H0635: 1, H0599: 1, H0618: 1, H0581: 1, H0327: 1, H0544: 1, H0545: 1, H0023: 1, H0290: 1, H0039: 1, H0135: 1, H0634: 1, L0351: 1, T0042: 1, H0494: 1, H0625: 1, H0561: 1, H0130: 1, S0002: 1, L0763: 1, L0643: 1, L0768: 1, L0804: 1, L0375: 1, L0806: 1, L0805: 1, L0509: 1, L0653: 1, L0657: 1, L0659: 1, L0542: 1, L0526: 1, L0384: 1, L0793: 1, H0547: 1, H0519: 1, H0689: 1, H0682: 1, H0684: 1, H0670: 1, S0152: 1, H0696: 1, S0406: 1, H0576: 1, S0027: 1, L0740: 1, L0747: 1, L0779: 1, L0757: 1, S0436: 1, H0543: 1 and S0460: 1.</p>	1
2220	HSSJW30	867721	2230	1067 - 1141	4827		<p>AR060: 2, AR316: 1, AR089: 1</p>	1

2221	HSSMY35	740765	2231	42 - 206	4828	Asst-47 to Arg-54.	H0617: 7, L0751: 6, S0360: 5, H0218: 4, H0052: 4, L0769: 4, L0499: 4, L0438: 3, S0404: 4, L0731: 4, S0358: 3, L0803: 3, L0809: 3, H0144: 3, H0657: 2, H0341: 2, H0255: 2, H0013: 2, H0253: 2, L0637: 2, L0794: 2, L0766: 2, L0774: 2, L0783: 2, H0593: 2, S0126: 2, H0555: 2, L0439: 2, L0758: 2, H0556: 1, H0686: 1, H0685: 1, H0254: 1, H0663: 1, H0662: 1, H0458: 1, S0418: 1, H0675: 1, S0222: 1, H0574: 1, H0635: 1, H0599: 1, H0618: 1, H0581: 1, H0327: 1, H0544: 1, H0545: 1, H0023: 1, H0290: 1, H0039: 1, H0135: 1, H0634: 1, L0351: 1, T0042: 1, H0494: 1, H0625: 1, H0561: 1, H0150: 1, S0002: 1, L0763: 1, L0643: 1, L0768: 1, L0804: 1, L0375: 1, L0806: 1, L0805: 1, L0509: 1, L0653: 1, L0657: 1, L0659: 1, L0542: 1, L0526: 1, L0384: 1, L0793: 1, H0547: 1, H0519: 1, H0689: 1, H0682: 1, H0684: 1, H0670: 1, S0152: 1, H0696: 1, S0406: 1, H0576: 1, S0027: 1, L0740: 1, L0747: 1, L0779: 1, L0757: 1, S0436: 1, H0543: 1 and S0460: 1.	Xq28	300031, 300044, 300048, 300049, 300049, 300055, 300100, 300100, 300104, 300126, 301201, 301590, 302060, 302060, 302060, 302060, 302960, 303700,
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2234	HSVBN46	603034	2244	120 - 254	4841				L0806: 1, L0527: 1, L0636: 1, L0783: 1, L0790: 1, S0296: 1, H0693: 1, H0519: 1, H0690: 1, H0682: 1, H0684: 1, H0648: 1, H0672: 1, S0454: 1, S0013: 1, H0626: 1, H0627: 1, S0028: 1, L0744: 1, L0771: 1, L0735: 1, L0757: 1, L0738: 1, L0739: 1, S0434: 1, S0436: 1, L0592: 1, H0667: 1, S0194: 1 and H0506: 1			
2235	HSVBY62	637113	2245	188 - 274	4842				H0309: 1 AR089: 3, AR316: 27, AR060: 22 L0748: 7, L0747: 6, L0769: 5, L0731: 4, S0444: 3, H0083: 3, H0412: 3, L0775: 3, H0670: 3, S0380: 3, L0779: 3, L0758: 3, H0352: 3, H0170: 2, S0007: 2, T0048: 2, H0309: 2, H0081: 2, H0413: 2, H0059: 2, H0641: 2, L0774: 2, L0655: 2, L0526: 2, H0144: 2, H0659: 2, H0710: 2, H0696: 2, S0027: 2, L0757: 2, L0615: 1, S0040: 1, H0295: 1, H0656: 1, S0116: 1, H0341: 1, H0484: 1, H0661: 1, H0664: 1, S0360: 1, S0408: 1, H0637: 1, H0393: 1, H0411: 1, H0392: 1, H0486: 1, H0318: 1, L0738: 1, H0545: 1, L0471: 1, H0014: 1, T0023: 1, H0181: 1, H0606: 1, H0673: 1, S0366: 1, H0316: 1, H0163: 1, H0087: 1, H0625: 1, S0438: 1, H0633: 1, S0210: 1, L0598: 1, H0517: 1, L0520: 1, L0371: 1, L0772: 1, L0764: 1, L0521: 1, L0549: 1, L0803: 1, L0776: 1, L0540: 1, L0783: 1, L0809: 1, L0529: 1, L0663: 1	11q12-q13.1		106100, 133780, 147050, 259700, 259770, 600045, 601650, 601884

2236	HSVBZ53	830117	2246	461 - 538	4843	<p>1, L0665: 1, S0374: 1, H0593: 1, S0126: 1, H0711: 1, H0658: 1, H0660: 1, H0648: 1, H0672: 1, S0378: 1, S0404: 1, S0406: 1, S0432: 1, S014: 1, L0740: 1, L0752: 1, L0590: 1, L0599: 1, H0668: 1, S0026: 1, H0423: 1, H0422: 1, S0424: 1 and H0712: 1.</p>	15q15-q21	105600, 109700, 114240, 151670, 160771, 177070, 177070, 182500, 218000, 227220, 243500, 600839, 601780, 601800, 602099
2237	HSVCF53	846129	2247	259 - 330	4844	<p>AR089: 12, AR316: 12, AR060: 11, L0747: 11, L0764: 4, L0748: 4, L0776: 3, L0750: 3, S0376: 2, H0486: 2, H0123: 2, H0328: 2, L0769: 2, L0662: 2, L0809: 2, H0658: 2, H0539: 2, L0756: 2, L0779: 2, L0758: 2, H0170: 2, S0024: 1, H0208: 1, H0333: 1, H0309: 1, L0157: 1, H0024: 1, L0766: 1, L0803: 1, L0774: 1, L0775: 1, L0655: 1, L0634: 1, L0540: 1, H0547: 1, H0670: 1, H0648: 1, L0740: 1, L0752: 1, L0755: 1 and L0591: 1.</p>		
2238	HSWAZ17	637682	2248	257 - 313	4845	<p>L0775: 3, L0766: 2, S0222: 1, H0309: 1, H0428: 1, H0413: 1, L0805: 1 and L0607: 1.</p>	2p12-p11.2	147200, 178640, 216900
2239	HSWB116	840965	2249	817 - 882	4846	<p>L0794: 3, L0662: 2, L0605: 2, H0685: 1, H0550: 1, H0333: 1, S0280: 1, H0575: 1, H0546: 1, H0646: 1, L0763: 1, L0804: 1, L0657: 1, L0809: 1, L0663: 1, L0665: 1, H0689: 1, H0670: 1, L0439: 1 and L0740: 1.</p>		
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2240	HSAI44	590743	2250	132 - 212	4847		S0036: 1					
2241	HSXA07	570855	2251	217 - 234	4848		S0036: 1					
2242	HSXA59	838072	2252	244 - 522	4849		AR089: 2, AR316: 2, AR060: 2 L0748: 8, L0749: 2, H0009: 1, S0036: 1 and L0519: 1.					
2243	HSXAX20	562783	2253	347 - 376	4850		AR060: 5, AR316: 4, AR089: 3 H0622: 2, S0036: 2, L0770: 2, L0804: 2, H0170: 1, S0294: 1, L0803: 1, L0775: 1, L0438: 1, L0439: 1 and L0594: 1. AR089: 18, AR316: 14, AR060: 11 L0777: 7, L0747: 6, L0769: 4, L0766: 3, L0776: 3, L0748: 2, L0759: 2, L0589: 2, H0657: 1, H0411: 1, H0581: 1, H0251: 1, T0010: 1, S0036: 1, L0774: 1, L0775: 1, L0375: 1, L0655: 1, L0657: 1, L0665: 1, H0520: 1, H0436: 1, L0731: 1, H0445: 1 and L0591: 1.	Xp21.1-q25				301220, 302350, 306400, 309470, 309585, 311250, 312040, 312610, 314850
2244	HSXAY60	737753	2254	345 - 647	4851							
2245	HSXBB78	600373	2255	156 - 206	4852							
2246	HSXCAB3	830046	2256	1796 - 1846	4853		AR263: 6, AR265: 4, AR184: 3, AR266: 2, AR282: 2, AR292: 2, AR175: 2, AR267: 2, AR192: 1, AR269: 1, AR312: 1, AR198: 1, AR234: 1, AR182: 1, AR284: 1, AR277: 1 S0036: 1 AR089: 10, AR316: 8,					

2247	HSXCX20	658728	2257	95 - 205	4854	Gln-1 to Thr-9.	AR060: 6 L0766: 7, L0439: 6, L0803: 4, L0740: 4, L0794: 3, L0665: 3, L0764: 2, L0518: 2, L0809: 2, L0747: 2, L0756: 2, L0777: 2, L0759: 2, H0445: 2, H0171: 1, S0360: 1, H0580: 1, H0351: 1, H0586: 1, H0497: 1, H0574: 1, L0021: 1, S0010: 1, H0596: 1, S0036: 1, L0662: 1, L0768: 1, L0775: 1, L0806: 1, L0655: 1, L0659: 1, H0702: 1, S0374: 1, H0435: 1, H0648: 1, H0521: 1, L0754: 1, L0752: 1, L0758: 1, L0362: 1 and L0465: 1. AR194: 7, AR282: 4, AR310: 3, AR263: 3, AR192: 2, AR312: 2, AR270: 2, AR229: 2, AR299: 2, AR053: 2, AR206: 1, AR175: 1, AR291: 1, AR096: 1 H0521: 8, H0522: 4, H0580: 2, H0586: 2, S0036: 2, H0638: 1, H0250: 1, S0003: 1, H0111: 1, S0002: 1, H0529: 1, L0762: 1, L0794: 1, L0803: 1, L0774: 1 and L0752: 1. L0770: 4, L0439: 4, L0777: 4, H0327: 3, H0050: 2, H0051: 2, T0010: 2, S0036: 2, L0769: 2, L0803: 2, L0809: 2, L0438: 2, L0742: 2, L0748: 2, L0747: 2, L0756: 2, L0779: 2, S0354: 1, H0645: 1, S6022: 1, H0549: 1, H0441: 1, H0036: 1, S0010: 1, H0150: 1, H0041: 1, S0250: 1, H0428: 1, H0551: 1, H0264: 1, S0038: 1, L0638: 1, L0641: 1, L0774: 1, L0378: 1, L0515:	3q24-3q25.1	106165, 117700, 117700, 169600, 180380, 180380, 180380, 222900, 276902, 601199, 601199, 601199, 601402, 601682
2248	HSXFG21	805972	2258	989 - 994	4855		6		

2249	HSXFH82	699863	2259	182 - 286	4856			1, L0783: 1, L0666: 1, S0126: 1, H0648: 1, S0328: 1, H0555: 1, L0741: 1, L0758: 1, S0031: 1 and L0366: 1.	14	
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2250	HSYBD33	612867	2260	329 - 487	4857	Pro-22 to Ser-27, Pro-30 to Trp-39,		AR310: 6, AR282: 4, AR182: 2, AR289: 2,		

2251	HSYBR79	873848	2261	425 - 598	4858	Pro-46 to Arg-52. Gln-27 to Lys-35, Cys-48 to Ile-53.	AR198: 2, AR266: 2, AR243: 2, AR183: 2, AR312: 1, AR238: 1, AR270: 1 H0551: 1 and L0779: 1. L0759: 10, L0748: 6, L0766: 5, L0777: 5, L0783: 4, L0439: 4, H0556: 3, L0747: 3, L0749: 3, L0752: 3, L0731: 3, H0657: 2, S0360: 2, H0031: 2, H0551: 2, H0056: 2, L0438: 2, L0756: 2, L0596: 2, L0591: 2, L0595: 2, L0362: 2, L0603: 2, H0543: 2, S0040: 1, S0420: 1, S0376: 1, H0619: 1, H0370: 1, H0331: 1, L0021: 1, H0599: 1, S0346: 1, H0046: 1, H0012: 1, S0051: 1, H0375: 1, H0188: 1, T0006: 1, L0455: 1, H0477: 1, H0623: 1, L0351: 1, S0440: 1, L0451: 1, L0769: 1, L0639: 1, L0761: 1, L0773: 1, L0768: 1, L0774: 1, L0806: 1, L0653: 1, L0776: 1, L0659: 1, L0665: 1, H0144: 1, S0374: 1, H0547: 1, H0672: 1, H0539: 1, S0027: 1, L0744: 1, L0750: 1, L0779: 1, L0758: 1, S0260: 1, H0422: 1 and H0506: 1.	20q13	600281, 600281
2252	HSYBV44	753253	2262	84 - 227	4859		AR060:1277, AR316:1234, AR089:1198 H0551: 1		
2253	HSYBZ94	799543	2263	52 - 291	4860	Arg-4 to Met-10, Gly-21 to Met-33, Leu-54 to Ser-62, Lys-67 to Arg-79.	AR089: 14, AR316: 12, AR060: 11 H0052: 3, H0457: 3, H0521: 2, S0420: 1, S0354: 1, H0551: 1, H0059: 1, H0593: 1, L0439: 1 and H0423: 1.	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 180840, 180721, 180840, 191181.

2254	HT3AB13	841680	2264	2055 - 2246	4861	Ser-44 to Glu-50, Pro-53 to Gly-60.	AR089: 18, AR316: 16, AR060: 13 H0486: 4, L0774: 4, L0754: 4, L0755: 4, L0756: 3, L0752: 3, H0595: 3, H0170: 2, H0140: 2, S0360: 2, L0717: 2, H0333: 2, S0414: 2, L0529: 2, L0750: 2, L0731: 2, H0346: 1, H0662: 1, H0638: 1, L0005: 1, H0586: 1, H0587: 1, H0574: 1, H0632: 1, T0039: 1, H0013: 1, H0575: 1, H0047: 1, H0057: 1, S0028: 1, H0039: 1, H0090: 1, H0087: 1, H0488: 1, H0633: 1, S0142: 1, L0598: 1, L0769: 1, L0363: 1, L0803: 1, L0655: 1, L0809: 1, H0144: 1, H0658: 1, H0672: 1, S0328: 1, S0330: 1, H0539: 1, H0521: 1, H0478: 1, L0743: 1, L0740: 1, L0777: 1, S0031: 1, H0445: 1, L0599: 1, L0366: 1, S0026: 1 and H0542: 1.			193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884
2255	HT4SB02	837688	2265	21 - 524	4862	Pro-8 to Pro-13, Ser-35 to Lys-41, Ser-60 to Pro-67, Lys-119 to Asn-132.	AR164: 29, AR165: 28, AR166: 26, AR163: 17, AR161: 17, AR162: 17, AR311: 14, AR250: 12, AR264: 9, AR309: 9, AR252: 9, AR308: 8, AR254: 8, AR312: 8, AR089: 7, AR263: 7, AR253: 7, AR221: 7, AR197: 7, AR248: 7, AR193: 7, AR282: 6, AR272: 6, AR195: 6, AR243: 6, AR310: 6,	14q24.3	104311, 109150, 182600, 245200, 601208	

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2257	HT4SB81	756723	2267	1168 - 1275	4864	Gln-21 to Trp-30.	L0591: 1. L0747: 6, H0556: 5, L0748: 5, L0779: 5, H0224: 4, H0457: 4, H0617: 4, L0749: 4, S0356: 3, H0264: 3, H0521: 3, S0114: 2, H0255: 2, S0354: 2, H0580: 2, S0222: 2, H0232: 2, H0123: 2, L0771: 2, L0639: 2, L0526: 2, L0743: 2, L0751: 2, L0752: 2, H0136: 2, H0543: 2, H0265: 1, H0341: 1, H0663: 1, S0358: 1, H0637: 1, H0645: 1, H0550: 1, H0486: 1, H0581: 1, H0231: 1, H0046: 1, H0050: 1, H0252: 1, H0553: 1, H0616: 1, H0087: 1, H0551: 1, T0041: 1, H0494: 1, H0641: 1, S0426: 1, H0695: 1, L0761: 1, L0800: 1, L0766: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0629: 1, L0657: 1, L0809: 1, L0664: 1, L0665: 1, S0053: 1, L0744: 1, L0777: 1, L0780: 1, L0731: 1, L0581: 1, H0423: 1 and H0506: 1.			129490, 167415, 176860, 176860, 256100
2258	HT4SB81	844512	2268	1171 - 1278	4865	Gln-21 to Trp-30.	L0747: 6, H0556: 5, L0748: 5, L0779: 5, H0224: 4, H0457: 4, H0617: 4, L0749: 4, S0356: 3, H0264: 3, H0521: 3, S0114: 2, H0255: 2, S0354: 2, H0580: 2, S0222: 2, H0232: 2, H0123: 2, L0771: 2, L0639: 2, L0526: 2, L0743: 2, L0751: 2, L0752: 2, H0136: 2, H0543: 2, H0265: 1, H0341: 1, H0663: 1, S0358: 1, H0637: 1, H0645: 1, H0550: 1, H0486: 1, H0581: 1, H0231: 1, H0046: 1, H0050: 1, H0252: 1, H0553: 1, H0616: 1, H0087: 1, H0551: 1, T0041: 1, H0494: 1, H0641: 1, S0426: 1, H0695: 1, L0761: 1, L0800: 1, L0766: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0629: 1, L0657: 1, L0809: 1, L0664: 1, L0665: 1, S0053: 1, L0744: 1, L0777: 1, L0780: 1, L0731: 1, L0581: 1, H0423: 1 and H0506: 1.			

2259	HT4SB81	858154	2269	1171 - 1278	4866	Gln-21 to Trp-30.	1, H0641: 1, S0426: 1, H0695: 1, L0761: 1, L0800: 1, L0766: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0629: 1, L0657: 1, L0809: 1, L0664: 1, L0665: 1, S0053: 1, L0744: 1, L0777: 1, L0780: 1, L0731: 1, L0581: 1, H0423: 1 and H0506: 1. L0747: 6, H0556: 5, L0748: 5, L0779: 5, H0224: 4, H0457: 4, H0617: 4, L0749: 4, S0356: 3, H0264: 3, H0521: 3, S0114: 2, H0255: 2, S0354: 2, H0580: 2, S0222: 2, H0232: 2, H0123: 2, L0771: 2, L0659: 2, L0526: 2, L0743: 2, L0751: 2, L0752: 2, H0136: 2, H0543: 2, H0265: 1, H0341: 1, H0663: 1, S0358: 1, H0637: 1, H0645: 1, H0550: 1, H0486: 1, H0581: 1, H0231: 1, H0046: 1, H0050: 1, H0252: 1, H0553: 1, H0616: 1, H0087: 1, H0551: 1, T0041: 1, H0494: 1, H0641: 1, S0426: 1, H0695: 1, L0761: 1, L0800: 1, L0766: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0629: 1, L0657: 1, L0809: 1, L0664: 1, L0665: 1, S0053: 1, L0744: 1, L0777: 1, L0780: 1, L0731: 1, L0581: 1, H0423: 1 and H0506: 1.
2260	HT5FX76	637118	2270	98 - 256	4867	AR052: 11, AR055: 9, AR194: 9, AR186: 9, AR089: 9, AR243: 8, AR033: 8, AR314: 8, AR312: 8, AR246: 8, AR060: 8, AR273: 8, AR202: 8, AR213: 8,	

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2262	HTACX63	602694	2272	202 - 258 188 - 835	4869 4870	Gln-79 to Cys-84, Lys-157 to Tyr-163, Ser-195 to Pro-201.	1, H0660: 1, L0602: 1, S0152: 1, S0176: 1, S0168: 1, H0555: 1, H0478: 1, L0741: 1, L0751: 1, L0749: 1, L0750: 1, L0759: 1, L0684: 1, H0543: 1 and H0422: 1.		
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2264	HTAD061	695760	2274	217 - 336	4871	Ala-32 to Asp-39.	1, L0780: 1, L0757: 1, L0758: 1, L0588: 1, L0591: 1 and H0422: 1. AR089: 18, AK316: 18, AR060: 17 L0439: 10, H0617: 9, L0745: 8, L0731: 7, L0758: 7, L0747: 5, L0779: 5, L0748: 4, H0265: 3, H0181: 3, L0766: 3, L0499: 3, L0774: 3, L0775: 3, L0809: 3, L0746: 3, S0358: 2, H0069: 2, H0618: 2, H0253: 2, L0483: 2, H0424: 2, H0135: 2, H0038: 2, L0769: 2, L0764: 2, L0794: 2, L0653: 2, L0493: 2, L0511: 2, L0740: 2, L0757: 2, H0556: 1, H0686: 1, H0685: 1, H0650: 1, H0657: 1, S0001: 1, S0045: 1, H0645: 1, H0549: 1, H0586: 1, H0642: 1, L0477: 1, H0635: 1, S0049: 1, H0544: 1, H0545: 1, H0457: 1, H0178: 1, H0571: 1, H0081: 1, H0012: 1, H0620: 1, H0083: 1, H0356: 1, H0290: 1, H0615: 1, H0688: 1, H0039: 1, T0006: 1, H0040: 1, H0087: 1, H0529: 1, L0507: 1, L0502: 1, L0506: 1, L0500: 1, L0372: 1, L0765: 1, L0662: 1, L0768: 1, L0375: 1, L0508: 1, L0654: 1, L0655: 1, L0514: 1, L0515: 1, L0512: 1, L0513: 1, L0659: 1, L0783: 1, L0789: 1, L0791: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0547: 1, H0659: 1, H0658: 1, S0330: 1, H0436: 1, L0741: 1, L0751: 1, L0750: 1, L0777: 1, L0752: 1, S0434: 1, L0601: 1, H0423: 1, S0462: 1 and	7	
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091033

2267	HTAED89	801931	2277	979 - 1578	4874	<p>Lys-22 to Leu-35, Arg-53 to His-59, Arg-85 to Trp-93, Gly-95 to Asn-100, Pro-123 to Gln-130.</p>	<p>1, H0156; 1, H0002; 1, H0042; 1, H0575; 1, S0010; 1, T0048; 1, H0581; 1, L0738; 1, H0530; 1, H0086; 1, H0123; 1, H0081; 1, H0023; 1, H0014; 1, H0051; 1, S0388; 1, H0375; 1, H0078; 1, H0267; 1, H0179; 1, H0288; 1, H0286; 1, H0328; 1, H0615; 1, H0039; 1, H0644; 1, H0169; 1, H0135; 1, H0090; 1, H0038; 1, H0634; 1, H0063; 1, H0264; 1, H0412; 1, T0069; 1, L0564; 1, H0429; 1, H0512; 1, H0334; 1, H0396; 1, S0352; 1, S0382; 1, S0448; 1, S0306; 1, S0466; 1, H0646; 1, S0002; 1, L0507; 1, L0502; 1, L0506; 1, L0536; 1, L0500; 1, L0372; 1, L0771; 1, L0794; 1, L0386; 1, L0381; 1, L0533; 1, L0803; 1, L0376; 1, L0508; 1, L0653; 1, L0654; 1, L0655; 1, L0514; 1, L0515; 1, L0512; 1, L0513; 1, L0517; 1, L0526; 1, L0783; 1, L0809; 1, L0529; 1, L0789; 1, L0532; 1, L0666; 1, L0663; 1, L0664; 1, L0665; 1, L0438; 1, S0328; 1, S0330; 1, S0350; 1, H0522; 1, H0187; 1, H0576; 1, S012; 1, S0037; 1, S0206; 1, S0032; 1, L0741; 1, L0749; 1, L0756; 1, L0777; 1, S0436; 1, L0587; 1, S0026; 1, H0667; 1, S0242; 1, S0196; 1, S0462; 1 and H0506; 1.</p>
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						AR247: 4, AR283: 4, AR192: 4, AR275: 4, AR266: 4, AR198: 4, AR206: 4, AR300: 4, AR033: 4, AR060: 3, AR316: 3, AR299: 3, AR249: 3, AR251: 3, AR312: 3, AR274: 3, AR039: 3, AR273: 3, AR096: 3, AR277: 3, AR271: 3, AR052: 3, AR202: 3, AR175: 3, AR291: 3, AR055: 2, AR184: 2, AR243: 2, AR185: 2, AR294: 2, AR292: 2, AR295: 2, AR182: 2, AR293: 2, AR310: 2, AR269: 2, AR204: 2, AR265: 2, AR309: 2, AR177: 2, AR270: 2, AR061: 2, AR218: 2, AR289: 2, AR053: 2, AR246: 2, AR205: 2, AR267: 2, AR213: 2, AR298: 2, AR268: 2, AR219: 2, AR258: 2, AR238: 2, AR286: 2, AR183: 1, AR229: 1, AR240: 1, AR248: 1, AR233: 1, AR284: 1, AR296: 1, AR285: 1, AR231: 1, AR263: 1, AR226: 1, AR290: 1, AR259: 1, H0069: 1 and L0758: 1.	
2268	HTAEF02	847134	2278	183 - 338	4875	AR060: 3, AR316: 2, AR089: 1 H0069: 1	
2269	HTAEH58	824756	2279	295 - 459	4876	Ser-17 to Leu-22. S0114: 1, S0134: 1, H0069: 1, L0794: 1, H0436: 1 and	

2270	HTAE035	732379	2280	63 - 170	4877			H0422: 1.			
2271	HTDAF68	637685	2281	167 - 331	4878			H0069: 1 and H0575: 1.			
2272	HTDAI38	878930	2282	1414 - 1644	4879	Gln-23 to Lys-29.	AR060: 4, AR316: 4, AR089: 3 L0766: 6, L0743: 6, L0748: 6, H0556: 5, H0521: 5, H0620: 4, L0776: 4, L0731: 4, H0265: 3, H0616: 3, S0152: 3, L0749: 3, L0759: 3, H0445: 3, H0663: 2, S0358: 2, H0599: 2, H0050: 2, H0266: 2, H0673: 2, H0623: 2, S0422: 2, L0646: 2, L0649: 2, L0775: 2, L0659: 2, H0547: 2, S3014: 2, S0206: 2, L0771: 2, L0752: 2, L0758: 2, L0596: 2, L0605: 2, L0599: 2, H0543: 2, H0423: 2, H0686: 1, S0114: 1, T0049: 1, S0134: 1, S0430: 1, H0583: 1, H0341: 1, H0484: 1, S0418: 1, S0045: 1, S0046: 1, H0370: 1, H0586: 1, H0486: 1, T0039: 1, H0250: 1, S0010: 1, S0346: 1, H0581: 1, H0421: 1, H0196: 1, H0046: 1, H0009: 1, H0081: 1, H0012: 1, H0510: 1, H0594: 1, H0553: 1, H0628: 1, L0055: 1, H0708: 1, H0598: 1, S0036: 1, H0135: 1, H0040: 1, H0634: 1, H0477: 1, H0264: 1, H0413: 1, S0038: 1, L0370: 1, T0042: 1, S0440: 1, H0646: 1, L0639: 1, L0772: 1, L0800: 1, L0645: 1, L0773: 1, L0521: 1, L0662: 1, L0768: 1, L0364: 1, L0803: 1, L0774: 1, L0806: 1, L0663: 1, H0519: 1, S0330: 1, S0378: 1, S0027: 1, S0028: 1, L0741: 1, L0744: 1, L0740: 1, L0751: 1, L0750: 1, L0756: 1	21q22.3			120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145

2273	HTEAL87	866486	2283	67 - 183	4880		1, L0755: 1, L0757: 1, L0591: 1 and H0352: 1. H0170: 3, L0776: 3, H0052: 2, H0261: 1, S0010: 1, H0038: 1, H0616: 1, S0386: 1, S0150: 1, L0794: 1, L0744: 1 and L0756: 1. L0776: 3, L0756: 3, H0673: 2, L0749: 2, L0481: 1, S0444: 1, S0360: 1, H0333: 1, H0486: 1, H0156: 1, L0022: 1, H0581: 1, H0165: 1, H0038: 1, S0294: 1, S0144: 1, S0344: 1, L0773: 1, L0766: 1, L0631: 1, L0653: 1, L0783: 1, L0663: 1, S0380: 1, S0406: 1, L0742: 1, L0744: 1, L0748: 1, L0747: 1 and L0601: 1.	21q21.1	
2274	HTEAN76	830399	2284	290 - 403	4881	Met-1 to Gln-7.	L0740: 6, L0598: 4, L0754: 4, H0171: 3, L0758: 3, L0759: 3, H0624: 2, L0666: 2, H0547: 2, L0751: 2, L0779: 2, L0777: 2, S0031: 2, H0483: 1, S0358: 1, S0444: 1, L0142: 1, H0038: 1, UNKWN: 1, L0770: 1, L0768: 1, L0774: 1, L0805: 1, L0776: 1, L0658: 1, L0809: 1, L0789: 1, S0374: 1, H0520: 1, H0659: 1, H0670: 1, L0745: 1, L0747: 1 and L0780: 1.	2q31-q37	100690, 113300, 120070, 120131, 120131, 120180, 120180, 120180, 120180, 120180, 120180, 120250, 138030, 142989, 156232, 178600, 259900, 266100, 600258, 600321, 600430
2275	HTEBL56	581100	2285	180 - 245	4882	Arg-14 to Gly-21.	L0776: 3, H0457: 2, L0769: 2, L0766: 2, S0044: 2, L0731: 2, L0605: 2, H0556: 1, H0449: 1, S0360: 1, H0393: 1, L0622: 1, H0156: 1, H0706: 1, H0253: 1, T0048: 1, H0318: 1, H0545: 1, H0563: 1, H0081: 1, S0250: 1, H0135: 1, H0038: 1, H0494: 1, S0144: 1, S0344: 1, S0002: 1, L0369: 1, L0762: 1, L0662: 1.	16q13-q21	114835, 118470, 132700, 172490, 209900, 600968
2276	HTECE87	702025	2286	157 - 282	4883				

2277	HTEDF78	564215	2287	83 - 244	4884	Tyr-8 to Trp-15, Pro-42 to Lys-53.	1, L0549: 1, L0653: 1, L0807: 1, L0519: 1, L0666: 1, L0665: 1, H0521: 1, S014: 1, S0027: 1, L0779: 1, L0758: 1, L0593: 1, H0668: 1 and S0398: 1. H0038: 1		
2278	HTED187	779267	2288	949 - 1002	4885		AR089: 439, AR316: 341, AR060: 250 L0439: 8, H0046: 7, L0775: 4, H0013: 3, L0766: 3, H0547: 3, L0750: 3, L0777: 3, L0731: 3, L0737: 3, S0436: 3, S0420: 2, S0360: 2, L0586: 2, H0156: 2, H0620: 2, H0264: 2, L0763: 2, L0769: 2, L0649: 2, L0776: 2, L0438: 2, L0748: 2, L0752: 2, L0759: 2, H0265: 1, H0556: 1, H0685: 1, H0716: 1, H0294: 1, S0418: 1, S0444: 1, H0722: 1, H0351: 1, H0438: 1, H0497: 1, L0021: 1, S0010: 1, H0318: 1, H0085: 1, H0546: 1, H0024: 1, T0010: 1, H0510: 1, H0687: 1, H0688: 1, H0428: 1, L0456: 1, H0124: 1, H0038: 1, H0616: 1, H0059: 1, T0041: 1, S0382: 1, L0065: 1, H0646: 1, L0369: 1, L0770: 1, L0637: 1, L0800: 1, L0764: 1, L0363: 1, L0768: 1, L0774: 1, L0527: 1, L0659: 1, L0647: 1, L0663: 1, L0664: 1, L0665: 1, H0519: 1, H0435: 1, H0660: 1, H0648: 1, S0332: 1, L0754: 1, L0749: 1, L0756: 1, L0755: 1, L0584: 1, L0603: 1, H0543: 1, H0423: 1 and H0422: 1.		
2279	HTEDX05	862064	2289	65 - 127	4886		AR205: 32, AR039: 29, AR244: 25, AR206: 24.		

2280	HTEEC19	862065	2290	72 - 164	4887		AR314: 1, AR296: 1 H0069: 1, H0050: 1, H0038: 1, H0100: 1, L0766: 1 and L0779: 1. AR089: 23, AR316: 19, AR060: 15 L0493: 91, L0515: 29, L0509: 25, L0514: 21, L0803: 13, L0508: 8, L0604: 7, H0599: 6, L0809: 5, H0445: 5, L0800: 4, L0511: 4, L0755: 4, L0731: 4, L0362: 4, H0543: 4, H0657: 3, L0598: 3, L0498: 3, L0805: 3, L0780: 3, L0759: 3, L0591: 3, S0026: 3, H0170: 2, S0360: 2, H0373: 2, H0038: 2, H0623: 2, H0494: 2, H0560: 2, H0561: 2, L0625: 2, L0503: 2, L0631: 2, L0653: 2, L0776: 2, L0792: 2, H0520: 2, H0555: 2, S0206: 2, L0748: 2, L0749: 2, L0756: 2, L0779: 2, L0590: 2, L0608: 2, H0668: 2, H0422: 2, S0040: 1, S0114: 1, S0134: 1, S0218: 1, H0656: 1, S0212: 1, H0489: 1, H0580: 1, S0045: 1, S0476: 1, H0431: 1, H0643: 1, L0623: 1, H0486: 1, H0069: 1, H0002: 1, H0097: 1, H0274: 1, S0474: 1, H0421: 1, L0040: 1, H0024: 1, S0003: 1, H0622: 1, H0553: 1, H0032: 1, H0388: 1, H0400: 1, S0036: 1, H0090: 1, H0551: 1, H0264: 1, H0412: 1, S0386: 1, T0042: 1, H0625: 1, S0210: 1, H0529: 1, L0520: 1, L0505: 1, L0506: 1, L0500: 1, L0761: 1, L0646: 1, L0662: 1, L0363: 1, L0768: 1, L0794: 1, L0375: 1, L0784: 1, L0655: 1,	2p11.1-q11.1		
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2281	HTEGH03	815562	2291	156 - 257	4888	Trp-14 to Ser-33.	L0510: 1, L0634: 1, L0517: 1, L0519: 1, L0793: 1, L0666: 1, L0664: 1, S0374: 1, H0547: 1, H0519: 1, H0682: 1, H0659: 1, H0658: 1, H0648: 1, H0672: 1, H0539: 1, H0521: 1, H0522: 1, H0696: 1, S0146: 1, S0390: 1, L0747: 1, L0753: 1, S0260: 1, H0444: 1, S0434: 1, L0584: 1, S0242: 1, S0194: 1, S0276: 1, H0542: 1 and S0424: 1. AR089: 15, AR316: 11, AR060: 8, L0748: 18, L0766: 15, S0410: 12, L0754: 12, L0731: 12, S0358: 9, L0659: 7, S0360: 6, H0622: 6, H0144: 6, L0740: 6, L0777: 6, L0758: 6, S0434: 5, L0589: 5, S0356: 4, H0616: 4, L0662: 4, L0783: 4, L0752: 4, L0596: 4, L0599: 4, H0171: 3, S0444: 3, S0408: 3, S0414: 3, H0156: 3, H0038: 3, H0494: 3, S0422: 3, L0770: 3, L0769: 3, L0772: 3, L0646: 3, L0773: 3, L0774: 3, L0776: 3, L0809: 3, S0374: 3, L0750: 3, S0276: 3, H0543: 3, H0624: 2, H0170: 2, H0583: 2, S0442: 2, S0045: 2, H0431: 2, S0346: 2, H0251: 2, H0123: 2, L0471: 2, S0628: 2, S0250: 2, H0644: 2, H0124: 2, S0210: 2, L0803: 2, L0775: 2, L0565: 2, H0435: 2, H0660: 2, S0328: 2, S0330: 2, L0749: 2, L0779: 2, L0755: 2, L0759: 2, L0587: 2, L0592: 2, L0362: 2, H0653: 2, S0192: 2, H0265: 1, H0686: 1, H0713: 1, H0717: 1, H0295: 1, S0116: 1,	12q13	107777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153
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2282	HTEGH03	839477	2292	1 - 699	4889	Ala-12 to Gly-20, Lys-39 to Lys-55, Met-79 to Ser-91, Lys-104 to Pro-118, Ser-129 to Val-136, Ser-147 to Ser-153, Val-158 to Glu-165, Ala-167 to Gly-177, Thr-179 to Gly-197, Gly-211 to Ser-232.	<p>H0341: 1, S0420: 1, S0476: 1, H0351: 1, H0411: 1, H0550: 1, H0461: 1, H0333: 1, H0486: 1, H0427: 1, H0042: 1, H0575: 1, H0036: 1, H0004: 1, S0010: 1, H0581: 1, H0052: 1, H0263: 1, H0046: 1, L0041: 1, H0050: 1, H0719: 1, S0336: 1, S0003: 1, H0039: 1, L0483: 1, T0006: 1, H0553: 1, H0628: 1, H0212: 1, H0163: 1, H0090: 1, H0412: 1, H0059: 1, S0038: 1, S0386: 1, S0438: 1, H0647: 1, H0517: 1, L0369: 1, L0763: 1, L0796: 1, L0374: 1, L0764: 1, L0648: 1, L0767: 1, L0381: 1, L0805: 1, L0653: 1, L0606: 1, L0517: 1, L0547: 1, L0788: 1, L0793: 1, L0666: 1, L0664: 1, L0665: 1, S0032: 1, S0310: 1, S0126: 1, H0651: 1, H0539: 1, H0521: 1, S0044: 1, S0406: 1, H0627: 1, L0744: 1, L0747: 1, S0026: 1, H0665: 1, H0422: 1 and S0412: 1.</p>	12q13	<p>107777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153</p>
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2283	HTEGS48	561492	2293	289 - 438	4890	Lys-27 to Glu-33.	<p> LO809: 3, S0374: 3, L0750: 3, S0276: 3, H0543: 3, H0624: 2, H0170: 2, H0583: 2, S0442: 2, S0045: 2, H0431: 2, S0346: 2, H0251: 2, H0123: 2, L0471: 2, S0028: 2, S0250: 2, H0644: 2, H0124: 2, S0210: 2, L0803: 2, L0775: 2, L0565: 2, H0435: 2, H0660: 2, S0328: 2, S0330: 2, L0749: 2, L0779: 2, L0755: 2, L0759: 2, L0587: 2, L0592: 2, L0362: 2, H0653: 2, S0192: 2, H0265: 1, H0686: 1, H0713: 1, H0717: 1, H0295: 1, S0116: 1, H0341: 1, S0420: 1, S0476: 1, H0351: 1, H0411: 1, H0550: 1, H0461: 1, H0333: 1, H0486: 1, H0427: 1, H0042: 1, H0575: 1, H0036: 1, H0004: 1, S0010: 1, H0581: 1, H0052: 1, H0263: 1, H0046: 1, L0041: 1, H0050: 1, H0719: 1, S0336: 1, S0003: 1, H0039: 1, L0483: 1, T0006: 1, H0553: 1, H0628: 1, H0212: 1, H0163: 1, H0090: 1, H0412: 1, H0059: 1, S0038: 1, S0386: 1, S0438: 1, H0647: 1, H0517: 1, L0369: 1, L0763: 1, L0796: 1, L0374: 1, L0764: 1, L0648: 1, L0767: 1, L0381: 1, L0805: 1, L0653: 1, L0606: 1, L0517: 1, L0547: 1, L0788: 1, L0793: 1, L0666: 1, L0664: 1, L0665: 1, S0052: 1, S0310: 1, S0126: 1, H0651: 1, H0539: 1, H0521: 1, S0044: 1, S0406: 1, H0627: 1, L0744: 1, L0747: 1, S0026: 1, H0665: 1, H0422: 1 and S0412: 1. </p>	AR060: 6, AR316: 5,
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2284	НТЕГВ81	637689	2294	36 - 98	4891	AR089: 3 H0038: 1 and L0758: 1. H0038: 2, S0142: 2, S0152: 2, L0756: 2, L0758: 2, S0424: 2, H0624: 1, H0171: 1, L0393: 1, H0346: 1, H0661: 1, S0376: 1, H0013: 1, H0575: 1, H0123: 1, S0388: 1, H0328: 1, H0551: 1, H0056: 1, S0210: 1, L0648: 1, L0789: 1, L0666: 1, L0664: 1, H0519: 1, L0759: 1, L0608: 1 and S0011: 1.			
2285	НТЕГВ81	824739	2295	271 - 309	4892	H0038: 1, H0616: 1 and L0779: 1.			
2286	НТЕГВ89	823145	2296	192 - 299	4893	L0748: 8, L0777: 5, L0779: 3, H0046: 2, H0038: 2, L0756: 2, H0037: 1, H0634: 1, H0616: 1, L0662: 1, L0803: 1, L0792: 1, L0666: 1, H0684: 1, H0670: 1 and L0749: 1.	5q34		109690, 109690, 123101, 180071, 600584
2287	НТЕГВ89	862067	2297	343 - 543	4894	AR089: 11, AR316: 10, AR060: 9 L0438: 7, L0740: 4, H0416: 3, L0803: 3, L0777: 3, S0005: 2, H0544: 2, H0271: 2, H0090: 2, H0038: 2, H0551: 2, S0440: 2, L0766: 2, L0809: 2, H0436: 2, L0748: 2, L0439: 2, L0754: 2, L0758: 2, L0366: 2, H0265: 1, H0556: 1, H0583: 1, H0656: 1, H0341: 1, S0360: 1, S0408: 1, S0132: 1, S0476: 1, H0550: 1, S0222: 1, H0632: 1, H0492: 1, H0013: 1, L0021: 1, H0599: 1, S0049: 1, H0123: 1, H0050: 1, H0375: 1, H0266: 1, H0622: 1, H0553: 1, H0383: 1, H0135: 1, H0040: 1, H0616: 1, H0087: 1, S0426: 1, L0769: 1, L0641: 1, L0644: 1, L0771: 1, L0773: 1.	7q21.1-q31.1		126650, 126650, 129900, 150240, 154276, 171050, 171060, 180105, 222800, 246900, 602136, 602136, 602136, 602447

							1, L0662: 1, L0768: 1, L0655: 1, L0665: 1, H0682: 1, H0696: 1, H0478: 1, L0749: 1, L0780: 1, L0759: 1 and H0422: 1.			
2288	HTEHV60	637690	2298	38 - 130	4895		H0038: 2 and H0616: 1.			
2289	HTEHW80	862068	2299	96 - 185	4896		H0038: 1			
2290	HTEID25	737852	2300	141 - 257	4897		H0038: 2			
2291	HTEID23	784268	2301	156 - 209	4898		L0754: 7, L0766: 5, L0794: 4, L0749: 4, H0618: 3, H0591: 3, H0038: 3, L0776: 3, L0779: 3, H0644: 2, H0090: 2, L0761: 2, H0693: 2, L0748: 2, L0755: 2, L0759: 2, H0445: 2, H0170: 2, H0650: 1, H0657: 1, S0212: 1, S0420: 1, S0376: 1, S0046: 1, H0549: 1, H0431: 1, H0427: 1, H0036: 1, H0318: 1, H0046: 1, H0050: 1, H0024: 1, S0250: 1, H0615: 1, L0141: 1, H0553: 1, L0142: 1, L0143: 1, H0032: 1, H0616: 1, H0063: 1, L0771: 1, L0662: 1, L0809: 1, L0519: 1, L0666: 1, H0144: 1, H0520: 1, H0658: 1, S0350: 1, H0521: 1, H0631: 1, S0014: 1, L0747: 1, L0758: 1, L0596: 1, L0591: 1, L0595: 1, S0011: 1 and S0026: 1.			
2292	HTEIM62	806472	2302	183 - 257	4899		AR089: 10, AR316: 10, AR060: 9			
							H0616: 3, L0520: 2, L0759: 2, H0294: 1, H0650: 1, S0360: 1, L0021: 1, H0318: 1, H0038: 1, L0475: 1, L0794: 1, L0803: 1, L0779: 1 and L0757: 1.			
2293	HTEIV33	603393	2303	207 - 227	4900		H0038: 1 and H0616: 1.			
2294	HTEIV65	570826	2304	102 - 227	4901		AR089: 46, AR316: 37, AR060: 29			
							H0038: 1			

2295	HTEIC50	637691	2305	96 - 185	4902	Lys-24 to Asn-29.	L0758: 2, H0150: 1, H0038: 1 and L0779: 1.		
2296	HTEID20	637687	2306	257 - 292	4903		L0805: 4, L0748: 4, H0038: 3, L0776: 2, L0758: 2, H0170: 1, S0402: 1, S0218: 1, S0444: 1, H0052: 1, H0024: 1, H0032: 1, L0766: 1, L0527: 1, L0538: 1, L0789: 1, S0374: 1, H0593: 1, L0751: 1, L0749: 1, L0779: 1, L0771: 1, L0731: 1, L0608: 1, S0192: 1 and S0412: 1.		
2297	HTEID61	828178	2307	94 - 168	4904		AR060: 5, AR316: 5, AR089: 4 H0169: 6, H0038: 3 and L0665: 1.		
2298	HTEIF31	762831	2308	124 - 246	4905	Gln-34 to Lys-40.	H0038: 1		
2299	HTEID29	824733	2309	298 - 351	4906		H0038: 1		
2300	HTEIL16	603409	2310	136 - 249	4907				
2301	HTEIP65	596826	2311	389 - 490	4908		L0747: 28, S0192: 21, L0659: 17, L0740: 12, H0038: 10, L0757: 10, L0758: 10, S0360: 9, H0545: 9, L0662: 9, L0775: 9, L0665: 9, L0439: 9, L0750: 9, L0664: 8, S0358: 7, H0616: 7, L0666: 7, L0601: 7, L0771: 6, L0731: 6, L0471: 5, S0003: 5, H0090: 5, H0547: 5, S0206: 5, L0748: 5, L0756: 5, L0752: 5, S0011: 5, S0026: 5, T0049: 4, L0717: 4, H0573: 4, H0012: 4, H0620: 4, H0083: 4, L0770: 4, L0764: 4, L0794: 4, L0766: 4, L0804: 4, L0375: 4, L0806: 4, L0754: 4, L0779: 4, L0596: 4, L0588: 4, L0581: 4, L0603: 4, H0556: 3, H0431: 3, H0370: 3, S0010: 3, H0596: 3, L0157: 3, S0388: 3, T0023: 3.		

095003 09101

H0031: 3, H0264: 3, L0564: 3, S0372: 3, L0769: 3, L0667: 3, L0321: 3, L0768: 3, L0774: 3, L0657: 3, L0783: 3, L0809: 3, L0663: 3, S0126: 3, S0122: 3, H0682: 3, L0759: 3, L0591: 3, H0352: 3, L0353: 2, H0686: 2, S0040: 2, H0295: 2, H0650: 2, S0045: 2, S0046: 2, S0132: 2, H0549: 2, S0222: 2, H0427: 2, H0156: 2, H0318: 2, H0263: 2, H0597: 2, H0546: 2, H0046: 2, H0050: 2, H0024: 2, T0010: 2, H0375: 2, H0266: 2, H0271: 2, H0030: 2, H0553: 2, H0644: 2, H0674: 2, H0135: 2, H0591: 2, H0412: 2, H0413: 2, H0039: 2, H0100: 2, S0002: 2, L0369: 2, L0520: 2, L0763: 2, L0637: 2, L0761: 2, L0372: 2, L0767: 2, L0649: 2, L0803: 2, L0776: 2, L0382: 2, L0647: 2, L0565: 2, H0690: 2, H0639: 2, H0670: 2, H0660: 2, H0648: 2, H0672: 2, S0404: 2, S0406: 2, H0555: 2, H0478: 2, H0626: 2, H0627: 2, L0070: 2, S3014: 2, S0032: 2, L0741: 2, L0590: 2, L0592: 2, L0599: 2, L0593: 2, L0595: 2, H0543: 2, L0600: 2, H0170: 1, H0171: 1, H0265: 1, T0002: 1, H0140: 1, S0470: 1, H0294: 1, L0785: 1, S0212: 1, S0282: 1, H0484: 1, H0671: 1, H0663: 1, H0664: 1, H0662: 1, H0638: 1, L0005: 1, S0442: 1, S0444: 1, H0676: 1, H0208: 1, H0619: 1, H0393: 1, S6022: 1, H0369: 1, H0550: 1, H0455: 1, H0587: 1, H0333: 1, H0331: 1, H0574: 1,
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							H0559: 1, T0039: 1, H0013: 1, S0280: 1, H0097: 1, H0042: 1, T0082: 1, S0474: 1, H0581: 1, S0049: 1, H0251: 1, H0309: 1, H0235: 1, H0011: 1, H0051: 1, H0021: 1, H0510: 1, H0594: 1, S0334: 1, H0687: 1, S0250: 1, S0214: 1, H0119: 1, T0006: 1, H0628: 1, H0617: 1, L0055: 1, H0032: 1, H0169: 1, H0124: 1, H0598: 1, H0551: 1, T0067: 1, H0128: 1, L0475: 1, H0560: 1, H0561: 1, S0352: 1, S0438: 1, S0440: 1, H0132: 1, H0641: 1, H0647: 1, H0646: 1, S0344: 1, S0426: 1, L0598: 1, H0529: 1, L0762: 1, L0646: 1, L0800: 1, L0771: 1, L0773: 1, L0388: 1, L0650: 1, L0378: 1, L0805: 1, L0653: 1, L0527: 1, L0558: 1, L0636: 1, L0526: 1, L0367: 1, L0787: 1, L0788: 1, H0144: 1, H0691: 1, H0520: 1, H0519: 1, H0365: 1, H0435: 1, H0658: 1, S0380: 1, H0521: 1, H0696: 1, S0044: 1, H0436: 1, S012: 1, L0786: 1, L0780: 1, L0755: 1, S0260: 1, H0444: 1, H0445: 1, H0343: 1, H0595: 1, S0436: 1, L0480: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1 and S0196: 1.
2302	HTEIV20	840706	2312	1747 - 1881	4909	Ser-25 to Asn-30.	AR089: 22, AR316: 18, AR060: 16 L0758: 8, L0731: 6, L0770: 5, L0747: 5, L0766: 4, L0742: 4, S0037: 3, L0750: 3, L0752: 3, H0253: 2, H0038: 2, L0598: 2, L0792: 2, H0144: 2, S0126: 2, S0328: 2, H0624: 1, H0556:

2303	HTEKD35	604979	2313	41 - 136	4910			1, H0295: 1, S0418: 1, S0045: 1, S0046: 1, H0619: 1, H0069: 1, S0474: 1, H0046: 1, H0150: 1, S0051: 1, S0003: 1, H0328: 1, H0615: 1, L0483: 1, H0169: 1, H0212: 1, H0634: 1, H0413: 1, H0100: 1, S0382: 1, S0422: 1, L0764: 1, L0771: 1, L0803: 1, L0775: 1, L0807: 1, L0666: 1, L0665: 1, L0438: 1, H0519: 1, S0152: 1, S0146: 1, H0436: 1, H0626: 1, L0744: 1, L0439: 1, L0736: 1, L0753: 1, S0434: 1, L0599: 1 and H0422: 1.	
2304	HTEKP82	694648	2314	457 - 564	4911	Thr-22 to Gln-35.		H0038: 1 AR089: 168, AR316: 132, AR060: 100 L0758: 6, L0750: 3, L0752: 3, H0253: 2, H0038: 2, L0731: 2, H0619: 1, L0666: 1, L0665: 1, H0144: 1, L0438: 1, L0439: 1, L0747: 1, L0756: 1, L0753: 1 and L0599: 1.	
2305	HTEKV69	877673	2315	634 - 1602	4912	Pro-115 to Leu-122, Lys-164 to Lys-171, Tyr-307 to Ile-312.		AR251: 23, AR053: 21, AR310: 21, AR309: 21, AR205: 19, AR244: 19, AR213: 18, AR263: 18, AR273: 17, AR265: 17, AR313: 16, AR312: 16, AR052: 16, AR194: 16, AR206: 16, AR243: 15, AR039: 15, AR202: 15, AR246: 14, AR274: 14, AR271: 13, AR198: 13, AR266: 12, AR241: 12, AR247: 12, AR204: 11, AR192: 11, AR295: 11, AR055: 11, AR275: 10, AR282: 10, AR253: 10, AR285: 10, AR033: 9.	

2306	HTEKZ52	762832	2316	146 - 244				AR096: 9, AR289: 9, AR248: 9, AR240: 8, AR277: 8, AR219: 8, AR284: 8, AR186: 8, AR104: 8, AR291: 8, AR290: 8, AR299: 8, AR177: 8, AR175: 8, AR286: 7, AR185: 7, AR292: 7, AR270: 7, AR293: 7, AR218: 7, AR268: 7, AR249: 7, AR183: 6, AR269: 6, AR283: 6, AR061: 6, AR296: 6, AR294: 6, AR298: 6, AR267: 6, AR182: 6, AR232: 6, AR256: 5, AR227: 5, AR316: 5, AR300: 5, AR234: 5, AR184: 5, AR226: 5, AR258: 5, AR089: 5, AR238: 5, AR229: 4, AR233: 4, AR179: 4, AR259: 3, AR237: 3, AR231: 3, AR060: 3 H0038: 2, L0626: 1, L0794: 1, L0789: 1 and L0758: 1.		
2307	HTEQC28	840031	2317	389 - 454	4913 4914			AR089: 9, AR316: 7, AR060: 5 H0305: 2, H0436: 2, H0581: 1 and H0616: 1.		
2308	HITOB75	900824	2318	2365 - 2793	4915	Gln-8 to Cys-13, Pro-18 to Leu-24, His-62 to Pro-68.		AR233: 31, AR293: 20, AR275: 19, AR192: 18, AR182: 16, AR274: 16, AR039: 16, AR298: 15, AR229: 14, AR205: 13, AR292: 13, AR286: 12, AR285: 12, AR204: 12, AR282: 12, AR273: 11,	15q11.2- 15q22.33	103581, 146150, 151670, 203200, 203500, 227220, 600374, 601623, 601780, 601800, 601889, 602117

AR259: 11, AR243: 10, AR194: 10, AR268: 10, AR295: 10, AR240: 10, AR237: 9, AR270: 9, AR267: 9, AR206: 8, AR186: 7, AR202: 7, AR183: 7, AR226: 6, AR052: 6, AR290: 6, AR296: 5, AR227: 5, AR244: 5, AR246: 5, AR053: 5, AR184: 5, AR175: 4, AR185: 4, AR231: 4, AR238: 3, AR234: 3, AR294: 3, AR179: 3, AR219: 3, AR284: 3, AR316: 2, AR096: 2, AR060: 2, AR104: 2, AR061: 2, AR300: 2, AR283: 2, AR269: 2, AR177: 2, AR241: 2, AR232: 2, AR089: 2, AR312: 1, AR033: 1, AR055: 1, AR266: 1, AR299: 1, H0694: 92, L0766: 9, L0747: 8, S0126: 7, L0439: 7, H0266: 6, L0776: 6, L0666: 6, L0748: 6, L0759: 6, H0622: 5, H0038: 5, H0623: 5, L0763: 5, L0659: 5, H0656: 4, S0358: 4, S0476: 4, H0486: 4, H0013: 4, L0598: 4, H0529: 4, L0662: 4, L0805: 4, L0655: 4, L0663: 4, H0521: 4, S0434: 4, H0657: 3, H0497: 3, H0574: 3, H0328: 3, H0615: 3, H0644: 3, H0551: 3, L0770: 3, L0764: 3, L0665: 3, H0144: 3, S0374: 3, H0547: 3, H0659: 3, S0330: 3, L0752: 3, H0445: 3, S0436: 3, H0717: 2, H0638:
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2309	HTGAQ29	637693	2322	127 - 285	4919	Ser-19 to Cys-24, Glu-32 to Gly-38.			1, H0704: 1, S0406: 1, S0390: 1, S0027: 1, L0756: 1, L0779: 1, L0780: 1, L0757: 1, L0596: 1, L0588: 1, L0589: 1, L0366: 1, S0011: 1, S0026: 1, H0665: 1, S0194: 1, H0423: 1, S0424: 1 and H0008: 1.		
2310	HTGAQ35	737945	2319	180 - 212	4916				H0457: 9 and S0134: 1.		
2311	HTGAD74	834464	2320	311 - 382	4917				S0134: 2 and H0618: 1.		
2312	HTGAP05	637715	2321	211 - 282	4918				AR089: 8, AR316: 7, AR060: 6		
2313	HTGAR21	838159	2323	97 - 201	4920				S0134: 1, L0005: 1, H0123: 1, L0662: 1 and L0659: 1.		
2314	HTGAS70	827350	2324	435 - 563	4921				S0134: 1		
2315	HTGAT65	688864	2325	155 - 205	4922				S0134: 1, S0222: 1, H0428: 1 and S0424: 1.		
2316	HTGAU17	605125	2326	109 - 213	4923				H0031: 2, S0136: 2, S0134: 1, H0381: 1, H0052: 1, T0041: 1 and S3014: 1.		
2317	HTGBF47	511189	2327	188 - 409	4924				S0134: 1 and S0002: 1.		
2318	HTGBK05	834490	2328	271 - 321	4925				AR089: 46, AR316: 38, AR060: 32		
									L0777: 5, L0766: 3, L0803: 3, L0439: 3, S0360: 2, L0598: 2, L0666: 2, L0748: 2, T0049: 1, S0134: 1, S0116: 1, L0717: 1, H0586: 1, H0486: 1, H0575: 1, H0510: 1, H0553: 1, H0560: 1, S0422: 1, L0763: 1, L0769: 1, L0521: 1, L0767: 1, L0768: 1, L0775: 1, L0663: 1, S0374: 1, L0438: 1, H0520: 1, H0682: 1, S0328: 1, L0740: 1, L0757: 1, S0192: 1 and H0543: 1.		
2319	HTGCC01	598903	2329	55 - 141	4926				S0134: 1		
2320	HTGCR43	828867	2330	231 - 278	4927				AR089: 25, AR316: 24,	1p35-p34.1	118210, 120530.

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120570, 120575, 121800, 130500, 133200, 138140, 138971, 171760, 171760, 172411, 178300, 185470, 230350, 255800, 602771	AR060: 24 S0410: 9, L0755: 7, H0031: 5, H0038: 5, L0771: 4, L0766: 4, L0809: 4, L0742: 4, L0747: 4, L0786: 4, S0260: 3, H0266: 3, H0059: 3, S0150: 3, L0768: 3, L0775: 3, L0806: 3, L0777: 3, L0601: 3, H0171: 2, H0661: 2, H0592: 2, H0632: 2, H0486: 2, H0530: 2, H0617: 2, H0616: 2, L0769: 2, L0805: 2, L0493: 2, L0517: 2, L0789: 2, H0547: 2, S0314: 2, L0750: 2, L0752: 2, L0731: 2, L0758: 2, L0588: 2, H0624: 1, H0294: 1, S0134: 1, H0657: 1, H0341: 1, H0483: 1, H0125: 1, S0444: 1, S0046: 1, S0476: 1, H0393: 1, H0497: 1, H0333: 1, H0331: 1, H0559: 1, L0622: 1, H0618: 1, S0010: 1, T0048: 1, H0581: 1, H0263: 1, H0597: 1, H0231: 1, H0544: 1, H0546: 1, H0545: 1, H0150: 1, H0041: 1, H0267: 1, H0288: 1, H0290: 1, H0292: 1, S0003: 1, L0142: 1, H0181: 1, H0169: 1, H0124: 1, H0598: 1, H0040: 1, H0087: 1, H0412: 1, H0494: 1, S0440: 1, H0130: 1, S0344: 1, L0762: 1, L0371: 1, L0770: 1, L0521: 1, L0381: 1, L0499: 1, L0498: 1, L0497: 1, L0522: 1, L0803: 1, L0774: 1, L0378: 1, L0509: 1, L0776: 1, L0807: 1, L0514: 1, L0515: 1, L0634: 1, L0782: 1, H0690: 1, H0658: 1, H0670: 1, H0648: 1, S0037: 1, S0027: 1, L0748: 1, L0749: 1, L0757: 1, L0759: 1, H0444: 1, S0436: 1, S0026: 1 and
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2321	HTGDS43	605094	2331	271 - 339	4928		H0542: 1. S0134: 1 and S0001: 1.	7p13-p12	138079, 138079, 165240, 165240, 165240, 180104, 203740, 219800, 261670, 601649
2322	HTGDS92	839478	2332	80 - 199	4929		L0731: 25, L0754: 23, L0601: 17, L0751: 9, L0750: 9, L0748: 8, H0181: 7, L0742: 7, L0740: 7, L0747: 7, H0087: 4, H0255: 3, S0045: 3, S0046: 3, H0441: 3, H0282: 3, T0048: 3, H0032: 3, T0067: 3, L0753: 3, L0757: 3, L0590: 3, L0603: 3, H0170: 2, S0134: 2, S0132: 2, H0101: 2, H0599: 2, H0309: 2, H0546: 2, H0150: 2, H0081: 2, H0163: 2, H0130: 2, L0743: 2, L0759: 2, S0260: 2, L0596: 2, L0362: 2, H0556: 1, H0295: 1, S0114: 1, T0049: 1, H0341: 1, H0484: 1, H0663: 1, S0278: 1, H0549: 1, S0223: 1, H0455: 1, H0299: 1, H0602: 1, H0333: 1, T0039: 1, H0427: 1, S0280: 1, H0156: 1, H0002: 1, H0196: 1, T0115: 1, H0178: 1, H0123: 1, S0051: 1, H0510: 1, S0602: 1, H0188: 1, H0428: 1, T0023: 1, T0006: 1, H0213: 1, H0030: 1, H0031: 1, H0090: 1, H0412: 1, H0413: 1, H0102: 1, H0494: 1, S0344: 1, L0543: 1, S0013: 1, S0104: 1, S0027: 1, S0206: 1, L0749: 1, L0756: 1, L0755: 1, H0445: 1, L0588: 1, L0604: 1, L0593: 1, L0361: 1, S0194: 1, H0423: 1 and L0600: 1.		
2323	HTGEX34	877490	2333	13 - 147	4930	Arg-29 to Lys-35.	AR089: 13, AR316: 10, AR060: 7		

2324	HTGFM431	862070	2334	73 - 189	4931		SO218: 1, H0393: 1 and H0590: 1.		
2325	HTGGM37	827310	2335	290 - 373	4932		AR060: 4, AR316: 4, AR089: 3, H0265: 1 and SO218: 1.		
2326	HTGGN22	782853	2336	243 - 305	4933		AR089: 6, AR316: 5, AR060: 4, SO218: 1, H0590: 1 and H0309: 1.		
2327	HTHAA41	809107	2337	128 - 226	4934	Leu-20 to Gly-26.	AR089: 22, AR316: 17, AR060: 13, SO218: 1 and L0376: 1.		
							L0754: 8, L0758: 8, H0038: 6, H0616: 6, L0766: 6, L0666: 6, L0794: 5, L0749: 5, L0779: 5, SO224: 3, H0031: 3, L0362: 3, L0803: 2, L0748: 2, L0751: 2, L0747: 2, SO358: 1, SO360: 1, H0333: 1, L0105: 1, H0545: 1, H0009: 1, H0266: 1, H0591: 1, H0062: 1, H0551: 1, H0412: 1, H0413: 1, H0100: 1, H0494: 1, L0598: 1, L0369: 1, L0763: 1, L0637: 1, L0662: 1, L0768: 1, L0388: 1, L0804: 1, L0659: 1, L0664: 1, L0665: 1, H0697: 1, L0438: 1, H0520: 1, S0454: 1, S0406: 1, L0439: 1, L0777: 1, L0752: 1, L0755: 1, L0731: 1, L0599: 1, S0026: 1, H0653: 1 and H0542: 1.		
2328	HTHBC58	839916	2338	519 - 563	4935		H0556: 1, H0632: 1 and H0063: 1.		
2329	HTHBO72	824078	2339	335 - 397	4936		H0510: 9, S0360: 5, H0509: 5, H0355: 4, S0438: 4, L0803: 4, L0775: 4, L0740: 4, H0393: 3, T0660: 3, H0124: 3, L0065: 3, L0774: 3, L0375: 3, H0519: 3, H0710: 3, L0748: 3, L0439: 3.		

2334	HTHCM60	600374	2344	250 - 273	4941				1, S0053: 1, S0374: 1, H0435: 1, H0670: 1, H0648: 1, S0328: 1, H0436: 1, S0032: 1, L0439: 1, L0754: 1, L0756: 1, L0777: 1, H0595: 1, L0588: 1, L0605: 1, L0591: 1, L0599: 1, L0608: 1, L0366: 1 and H0136: 1.
2335	HTHDB20	600374	2345	105 - 323	4942				H0063: 1 and H0423: 1.
									AR313: 64, AR162: 36, AR161: 36, AR173: 35, AR163: 35, AR258: 35, AR180: 34, AR300: 34, AR165: 34, AR262: 32, AR175: 32, AR164: 32, AR096: 31, AR178: 30, AR219: 29, AR183: 29, AR247: 29, AR196: 29, AR179: 28, AR166: 28, AR269: 27, AR240: 27, AR299: 27, AR229: 27, AR218: 27, AR257: 26, AR293: 25, AR296: 24, AR234: 24, AR182: 23, AR238: 23, AR294: 22, AR191: 22, AR185: 22, AR270: 21, AR268: 21, AR236: 20, AR260: 20, AR089: 20, AR181: 20, AR174: 20, AR176: 20, AR233: 19, AR297: 19, AR285: 19, AR199: 18, AR290: 18, AR275: 18, AR287: 18, AR226: 17, AR274: 17, AR104: 17, AR316: 17, AR231: 16, AR264: 16, AR189: 16, AR200: 15, AR286: 15, AR312: 15, AR203: 15, AR255: 15, AR267: 15, AR060: 14, AR177: 14,

2336	HTHDF45	621313	2346	175 - 240	4943		AR033: 14, AR277: 14, AR295: 13, AR228: 13, AR282: 13, AR188: 13, AR211: 12, AR237: 12, AR230: 12, AR291: 12, AR288: 11, AR242: 11, AR239: 10, AR227: 10, AR308: 10, AR266: 10, AR256: 10, AR263: 10, AR311: 9, AR261: 9, AR190: 9, AR192: 9, AR213: 8, AR235: 8, AR289: 7, AR212: 7, AR168: 7, AR272: 7, AR053: 6, AR210: 6, AR172: 5, AR232: 5, AR061: 5, AR283: 5, AR039: 5, AR225: 5, AR252: 5, AR309: 5, AR224: 5, AR171: 5, AR055: 4, AR216: 4, AR169: 4, AR271: 4, AR214: 3, AR205: 3, AR223: 3, AR193: 3, AR215: 3, AR222: 2, AR198: 2, AR204: 2, AR217: 2 H0063: 1 H0341: 1, H0351: 1, H0023: 1, H0063: 1, L0769: 1 and H0543: 1.		
2337	HTHDF86	815686	2347	118 - 360	4944	Thr-69 to Leu-75.	H0063: 1		
2338	HTHDL18	824685	2348	247 - 450	4945				
2339	HTHDP65	637699	2349	217 - 348	4946	Asn-24 to Pro-29.	L0005: 5, L0766: 5, H0677: 5, L0758: 4, H0656: 3, L0731: 3, L0759: 3, S0046: 2, H0586: 2, L0157: 2, L0471: 2, L0775: 2, L0665: 2, H0144: 2, H0696: 2, S0434: 2, H0423: 2, H0624: 1, H0171: 1, S0040: 1, S0218:		

2340	HTHDT25	655370	2350	60 - 197	4947			1, H0650: 1, H0638: 1, S0376: 1, H0380: 1, S0007: 1, S0045: 1, H0639: 1, H0333: 1, H0013: 1, H0156: 1, H0318: 1, H0085: 1, S0388: 1, S0051: 1, H0615: 1, H0428: 1, H0628: 1, H0032: 1, S0036: 1, H0090: 1, H0591: 1, H0063: 1, H0494: 1, L0065: 1, S0438: 1, S0440: 1, H0131: 1, H0646: 1, S0422: 1, L0598: 1, L0763: 1, L0646: 1, L0662: 1, L0768: 1, L0803: 1, L0655: 1, L0664: 1, S0052: 1, H0701: 1, H0724: 1, H0520: 1, H0547: 1, H0682: 1, H0660: 1, H0710: 1, H0521: 1, H0704: 1, H0436: 1, H0478: 1, H0627: 1, L0756: 1, L0777: 1, L0608: 1, L0366: 1, H0665: 1, S0242: 1, S0194: 1, S0276: 1 and H0422: 1.
2341	HTHDV50	789402	2351	119 - 190	4948			H0063: 1 AR089: 16, AR316: 12, AR060: 8 H0063: 2 and H0057: 1.
2342	HTDMA64	775181	2352	138 - 416	4949	Ser-35 to Thr-42, Pro-66 to Arg-74.		AR060: 6, AR316: 5, AR089: 4 L0659: 2, L0362: 2, S0222: 1, H0392: 1, H0013: 1, L0471: 1, L0163: 1, H0068: 1, H0591: 1, H0488: 1, L0764: 1, L0774: 1, L0651: 1, L0809: 1, L0666: 1, L0664: 1, H0144: 1, H0690: 1, S0152: 1, L0748: 1, L0779: 1, L0758: 1 and S0434: 1.
2343	HTJMU72	840032	2353	263 - 346	4950			AR089: 30, AR316: 24, AR060: 18 H0586: 1, H0488: 1, H0494: 1, L0803: 1, L0804: 1 and L0653: 1.

2344	HTLAD74	638978	2354	163 - 264	4951			AR089: 2, AR316: 1, AR060: 1 H0253: 1		
2345	HTLAF81	855970	2355	195 - 767	4952	Leu-78 to Phe-84, Asp-102 to Ala-113.		AR060: 94, AK316: 62, AR089: 26 H0885: 15, H0253: 9, H0141: 7, H0618: 5, H0427: 2, H0650: 1, H0592: 1, H0581: 1, H0052: 1, H0545: 1, H0616: 1, H0087: 1, H0551: 1, H0521: 1, H0522: 1, L0758: 1 and H0506: 1.	2	
2346	HTLBF46	839774	2356	176 - 760	4953	Glu-62 to Cys-76, Ser-94 to Lys-99, Tyr-148 to Asp-153, Thr-165 to Gly-180.		H0618: 19, H0253: 10, H0052: 6, L0803: 5, L0809: 5, L0744: 5, L0758: 5, L0806: 4, H0309: 3, H0617: 3, H0549: 2, H0550: 2, H0441: 2, S0010: 2, H0046: 2, H0024: 2, H0014: 2, H0252: 2, L0774: 2, L0775: 2, L0743: 2, L0740: 2, L0752: 2, H0170: 1, H0295: 1, S0354: 1, S0360: 1, H0580: 1, H0393: 1, H0462: 1, H0392: 1, H0438: 1, H0333: 1, H0574: 1, L0021: 1, L0022: 1, H0042: 1, S0049: 1, H0544: 1, H0546: 1, H0150: 1, H0009: 1, H0123: 1, H0012: 1, S0031: 1, T0010: 1, H0510: 1, H0428: 1, T0006: 1, H0424: 1, H0553: 1, H0181: 1, H0606: 1, L0456: 1, S0366: 1, S0036: 1, H0135: 1, H0163: 1, S0438: 1, L0369: 1, L0770: 1, L0769: 1, L0794: 1, L0375: 1, L0651: 1, L0805: 1, L0653: 1, L0790: 1, L0792: 1, S0374: 1, S0126: 1, H0682: 1, H0659: 1, H0539: 1, H0696: 1, S0406: 1, L0741: 1, L0751: 1, L0747: 1, L0750: 1, L0780: 1, L0731: 1, L0757: 1, L0759: 1 and S0412: 1.		

2347	HTLBF63	762847	2357	97 - 795	4954	Ser-18 to Lys-27, Phe-31 to Trp-36, Pro-41 to Ser-48, Thr-112 to Lys-119, Leu-133 to Lys-140, Pro-155 to Leu-160, Ala-193 to Cys-206, Gln-227 to Lys-232.	AR089: 5 H0253: 37, H0618: 33, L0758: 6, H0038: 5, L0794: 4, L0666: 3, L0565: 2, L0750: 2, H0208: 1, S0046: 1, H0392: 1, H0486: 1, H0123: 1, H0024: 1, H0617: 1, H0616: 1, L0657: 1, L0791: 1, L0664: 1, H0670: 1, H0660: 1 and S0192: 1.	AR060: 7, AR316: 6, AR089: 5 H0253: 37, H0618: 33, L0758: 6, H0038: 5, L0794: 4, L0666: 3, L0565: 2, L0750: 2, H0208: 1, S0046: 1, H0392: 1, H0486: 1, H0123: 1, H0024: 1, H0617: 1, H0616: 1, L0657: 1, L0791: 1, L0664: 1, H0670: 1, H0660: 1 and S0192: 1.	3p21.3	116806, 120120, 120120, 120120, 120436, 120436, 120436, 138320, 168468, 182280, 600163
2348	HTLCX82	847091	2358	46 - 273	4955	Glu-48 to Gly-60, Pro-68 to Trp-74.	L0803: 4, L0805: 4, L0758: 4, H0255: 2, S0422: 2, L0769: 2, L0774: 2, L0666: 2, L0665: 2, L0439: 2, L0777: 2, L0731: 2, S0042: 2, H0265: 1, H0686: 2, H0662: 1, H0156: 1, H0253: 1, H0009: 1, S6028: 1, S0214: 1, H0328: 1, H0494: 1, L0773: 1, L0766: 1, L0809: 1, L0788: 1, L0792: 1, L0663: 1, L0438: 1, H0518: 1, L0749: 1, L0779: 1, L0755: 1, H0595: 1 and H0707: 1.	L0803: 4, L0805: 4, L0758: 4, H0255: 2, S0422: 2, L0769: 2, L0774: 2, L0666: 2, L0665: 2, L0439: 2, L0777: 2, L0731: 2, S0042: 2, H0265: 1, H0686: 2, H0662: 1, H0156: 1, H0253: 1, H0009: 1, S6028: 1, S0214: 1, H0328: 1, H0494: 1, L0773: 1, L0766: 1, L0809: 1, L0788: 1, L0792: 1, L0663: 1, L0438: 1, H0518: 1, L0749: 1, L0779: 1, L0755: 1, H0595: 1 and H0707: 1.	22q11.21	123620, 151410, 600830
2349	HTLDD89	688059	2359	263 - 412	4956	Arg-22 to Trp-30, Ser-43 to Cys-48.	AR089: 23, AR316: 20, AR060: 17 H0253: 2 and H0616: 1.	AR089: 23, AR316: 20, AR060: 17 H0253: 2 and H0616: 1.		
2350	HTLDN34	866199	2360	84 - 365	4957	Pro-75 to Ser-93.	AR089: 4, AR316: 3, AR060: 3 H0616: 4, L0794: 3, H0253: 2, L0779: 2, L0758: 2, H0618: 1, H0038: 1 and S0042: 1.	AR089: 4, AR316: 3, AR060: 3 H0616: 4, L0794: 3, H0253: 2, L0779: 2, L0758: 2, H0618: 1, H0038: 1 and S0042: 1.		
2351	HTLDP19	885353	2361	99 - 629	4958	Gly-23 to Gln-30, Asn-57 to Ala-62, Pro-161 to Leu-168.	AR244: 14, AR053: 11, AR186: 11, AR267: 9, AR270: 9, AR204: 8, AR296: 8, AR182: 8, AR246: 8, AR269: 8, AR289: 8, AR061: 8, AR033: 7, AR052: 7, AR206: 7, AR060: 7, AR243: 7, AR185: 6.	AR244: 14, AR053: 11, AR186: 11, AR267: 9, AR270: 9, AR204: 8, AR296: 8, AR182: 8, AR246: 8, AR269: 8, AR289: 8, AR061: 8, AR033: 7, AR052: 7, AR206: 7, AR060: 7, AR243: 7, AR185: 6.		

2352	HTL/DY30	901885	2362	115 - 141	4959		<p>3, L0362: 3, H0014: 2, H0135: 2, H0494: 2, H0144: 2, L0438: 2, H0648: 2, S0380: 2, L0752: 2, L0753: 2, L0755: 2, L0731: 2, L0588: 2, L0605: 2, L0603: 2, S0196: 2, H0624: 1, H0171: 1, H0584: 1, H0686: 1, H0657: 1, H0341: 1, H0484: 1, H0483: 1, S0358: 1, H0637: 1, S0045: 1, S0222: 1, H0431: 1, H0632: 1, H0156: 1, H0098: 1, H0581: 1, H0234: 1, H0231: 1, H00466: 1, L0157: 1, H0123: 1, H0050: 1, H0012: 1, S0388: 1, S0025: 1, H0594: 1, H0039: 1, H0628: 1, H0606: 1, H0673: 1, H0674: 1, S0364: 1, H0124: 1, S0036: 1, H0090: 1, H0412: 1, S0144: 1, S0142: 1, S0344: 1, L0598: 1, L0769: 1, L0637: 1, L0764: 1, L0648: 1, L0662: 1, L0375: 1, L0651: 1, L0805: 1, L0776: 1, L0790: 1, L0791: 1, L0665: 1, H0519: 1, H0660: 1, H0666: 1, S0406: 1, S3012: 1, L0439: 1, L0740: 1, L0756: 1, L0581: 1, L0608: 1, L0361: 1, L0366: 1, S0192: 1, H0542: 1, H0543: 1, H0423: 1, H0506: 1 and H0352: 1.</p>		
2353	HTL/DY30	608317	2363	110 - 622	4960	Ala-23 to His-34,	<p>AR089: 31, AR316: 25, AR060: 20 L0508: 4, H0617: 2, L0438: 2, L0439: 2, H0255: 1, S0358: 1, H0618: 1, H0253: 1, S0346: 1, H0051: 1, T0010: 1, S0036: 1, S0038: 1, S0002: 1, L0646: 1, L0648: 1, L4559: 1 and L0665: 1.</p>	18c23	250/990

2354	H1LEJ75	815631	2364	1559 - 1600	4961		AR219: 2 H0341: 1, H0360: 1, H0486: 1, H0618: 1, H0253: 1, H0052: 1, H0617: 1, H0494: 1, L0761: 1, L0788: 1, H0593: 1, H0684: 1, H0696: 1, L0740: 1, L0745: 1, L0747: 1 and L0755: 1. AR089: 11, AR316: 10, AR060: 10 H0566: 9, L0747: 7, L0771: 6, H0622: 5, L0749: 5, L0741: 4, H0265: 3, H0052: 3, H0090: 3, H0038: 3, L0769: 3, H0555: 3, L0752: 3, L0758: 3, H0156: 2, H0318: 2, H0553: 2, H0412: 2, L0641: 2, L0662: 2, L0438: 2, H0519: 2, H0521: 2, L0748: 2, L0439: 2, L0754: 2, L0779: 2, L0731: 2, H0677: 2, S0154: 1, H0583: 1, S0116: 1, S0212: 1, H0393: 1, H0550: 1, H0438: 1, T0109: 1, L0021: 1, H0618: 1, H0253: 1, S0346: 1, H0581: 1, H0194: 1, L0040: 1, H0009: 1, H0500: 1, H0099: 1, H0266: 1, H0284: 1, H0428: 1, H0039: 1, H0604: 1, H0030: 1, H0031: 1, L0142: 1, H0135: 1, H0591: 1, H0616: 1, H0551: 1, H0264: 1, H0413: 1, S0142: 1, L0761: 1, L0644: 1, L0764: 1, L0765: 1, L0768: 1, L0766: 1, L0649: 1, L0776: 1, L0659: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0374: 1, H0547: 1, H0539: 1, S0176: 1, H0187: 1, H0436: 1, L0744: 1, L0750: 1, L0753: 1, L0755: 1, S0434: 1, L0603: 1, L0366: 1 and H0422: 1. AR089: 11, AR316: 10,	10q24-q25	157640, 167409, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600020, 600095, 600312, 601107, 601130, 602082, 602669, 602669
2355	H1LEJ75	762849	2365	224 - 265	4962		AR089: 11, AR316: 10,	10q24-q25	157640, 167409,

2356	HTLEP55	637704	2366	133 - 591	4963	Arg-10 to Arg-18, Lys-123 to Ser-138.	AR060: 10 H0556: 9, L0747: 7, L0771: 6, H0622: 5, L0749: 5, L0741: 4, H0265: 3, H0052: 3, H0090: 3, H0038: 3, L0769: 3, H0555: 3, L0752: 3, L0758: 3, H0156: 2, H0318: 2, H0553: 2, H0412: 2, L0641: 2, L0662: 2, L0438: 2, H0519: 2, H0521: 2, L0748: 2, L0439: 2, L0754: 2, L0779: 2, L0731: 2, H0677: 2, S0134: 1, H0583: 1, S0116: 1, S0212: 1, H0393: 1, H0550: 1, H0438: 1, T0109: 1, L0021: 1, H0618: 1, H0253: 1, S0346: 1, H0581: 1, H0194: 1, L0040: 1, H0009: 1, H0050: 1, H0099: 1, H0266: 1, H0284: 1, H0428: 1, H0039: 1, H0604: 1, H0030: 1, H0031: 1, L0142: 1, H0135: 1, H0591: 1, H0616: 1, H0551: 1, H0264: 1, H0413: 1, S0142: 1, L0761: 1, L0644: 1, L0764: 1, L0765: 1, L0768: 1, L0766: 1, L0649: 1, L0776: 1, L0659: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0374: 1, H0547: 1, H0539: 1, S0176: 1, H0187: 1, H0436: 1, L0744: 1, L0750: 1, L0753: 1, L0755: 1, S0434: 1, L0603: 1, L0366: 1 and H0422: 1.	7q32	174900, 180250, 186770, 236730, 271245, 278000, 278000, 600020, 600095, 600512, 601107, 601130, 602082, 602669, 602669
2356	HTLEP55	637704	2366	133 - 591	4963	Arg-10 to Arg-18, Lys-123 to Ser-138.	AR060: 4, AR316: 3, AR089: 2 H0253: 8, H0618: 7, L0666: 3, H0656: 2, H0551: 2, L0800: 2, L0662: 2, L0794: 2, L0804: 2, L0657: 2, L0754: 2, L0756: 2, L0777: 2, H0159: 1, S0358: 1, S0045: 1, H0318: 1, H0024: 1, H0083: 1, S0038: 1, H0494:	180105, 190900, 222800, 246900	

2357	HTLEV80	866200	2367	276 - 503	4964	Ser-56 to Arg-67.	1, L0763: 1, L0521: 1, L0766: 1, L0659: 1, L0809: 1, H0519: 1, H0648: 1, S0152: 1, L0744: 1, L0751: 1, L0749: 1, L0779: 1, L0604: 1, H0423: 1 and S0398: 1. H0253: 6, H0617: 4, H0618: 3, H0530: 3, L0742: 3, S0222: 2, H0538: 2, L0439: 2, L0758: 2, H0306: 1, S0358: 1, H0261: 1, H0455: 1, H0052: 1, H0009: 1, H0242: 1, S0031: 1, S0038: 1, T0042: 1, L0639: 1, L0788: 1, L0664: 1, H0659: 1, H0648: 1, S0328: 1, L0741: 1, L0749: 1, L0601: 1 and S0424: 1.	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884
2358	HTLEZ57	634874	2368	187 - 294	4965		AR089: 15, AR316: 13, AR060: 11 L0766: 6, L0747: 3, L0803: 2, L0777: 2, H0550: 1, H0574: 1, H0486: 1, H0013: 1, H0253: 1, L0773: 1, L0805: 1, L0809: 1, L0789: 1, S0126: 1, L0740: 1 and L0779: 1.		
2359	HTLFA90	740770	2369	131 - 1075	4966	Asp-33 to Lys-41, Arg-109 to Ser-114, Val-127 to Phe-137, Glu-285 to Arg-292.	AR060: 5, AR089: 4, AR241: 4, AR316: 3, AR194: 3, AR229: 3, AR243: 2, AR251: 2, AR183: 2, AR270: 2, AR184: 1, AR290: 1, AR238: 1, AR206: 1, AR175: 1, AR277: 1, AR310: 1, AR312: 1, AR282: 1, AR052: 1 H0618: 9, H0253: 9, L0779: 5, L0794: 4, L0665: 4, L0459: 4, L0758: 4, S0358: 2, S0408:	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477

2360	HTL GL33	835020	2370	763 - 1287	4967	Glu-25 to Leu-34, Gln-105 to Asn-112, Ser-146 to Phe-155, Cys-161 to Ser-173.	<p>2, H0497: 2, H0575: 2, S0474; 2, H0529: 2, L0761: 2, H0547; 2, L0740: 2, L0596: 2, H0624; 1, S0040: 1, S0212: 1, H0483; 1, H0663: 1, S0420: 1, S0442; 1, H0645: 1, S0222: 1, H0370; 1, H0415: 1, H0612: 1, H0559; 1, H0581: 1, H0544: 1, H0545; 1, H0050: 1, H0012: 1, H0620; 1, H0266: 1, H0615: 1, H0424; 1, L0055: 1, H0488: 1, H0413; 1, H0623: 1, S0210: 1, S0422; 1, H0695: 1, L0644: 1, L0767; 1, L0768: 1, L0766: 1, L0803; 1, L0804: 1, L0375: 1, L0806; 1, L0653: 1, L0658: 1, L0783; 1, L0647: 1, L0789: 1, L0438; 1, H0709: 1, S0152: 1, H0522; 1, S0028: 1, L0748: 1, L0751; 1, L0747: 1, L0777: 1, L0780; 1, L0752: 1, L0759: 1, S0031; 1, S0436: 1, H0543: 1 and S0424: 1.</p>		
2360	HTL GL33	835020	2370	763 - 1287	4967	Glu-25 to Leu-34, Gln-105 to Asn-112, Ser-146 to Phe-155, Cys-161 to Ser-173.	<p>AR281: 24, AR205: 19, AR194: 18, AR244: 17, AR315: 17, AR202: 17, AR206: 16, AR039: 16, AR089: 15, AR241: 15, AR246: 15, AR280: 15, AR263: 14, AR265: 13, AR310: 13, AR243: 12, AR316: 12, AR060: 12, AR283: 11, AR314: 11, AR198: 11, AR282: 11, AR295: 11, AR033: 10, AR053: 10, AR204: 10, AR284: 10, AR271: 10, AR192: 10, AR289: 10, AR251: 10, AR299: 10, AR055: 10, AR277: 9,</p>		

2361	HTLGQ25	898114	2371	24 - 536	4968	Gly-67 to Lys-73, Gly-90 to Phe-100, Glu-128 to Gly-134, Tyr-143 to Lys-149, Leu-157 to Ser-166.	AR247: 9, AR312: 9, AR309: 9, AR096: 8, AR266: 8, AR213: 8, AR052: 8, AR300: 8, AR285: 7, AR273: 7, AR292: 7, AR104: 7, AR177: 7, AR293: 7, AR270: 7, AR186: 7, AR269: 7, AR286: 7, AR291: 7, AR232: 7, AR313: 7, AR296: 6, AR248: 6, AR274: 6, AR275: 6, AR240: 6, AR182: 6, AR298: 6, AR175: 6, AR231: 6, AR185: 5, AR238: 5, AR184: 5, AR061: 5, AR268: 5, AR294: 5, AR290: 5, AR226: 5, AR229: 5, AR227: 5, AR267: 5, AR183: 5, AR234: 4, AR218: 4, AR253: 4, AR233: 4, AR237: 4, AR258: 4, AR219: 3, AR259: 3, AR256: 3, AR179: 2, AR249: 2 H0618: 1 and L0746: 1.		
2362	HTLGS72	897278	2372	363 - 620	4969	Gly-67 to Lys-73, Gly-90 to Phe-100, Glu-128 to Gly-134, Tyr-143 to Lys-149, Leu-157 to Ser-166.	AR089: 18, AR316: 16, AR060: 14 L0758: 3, H0618: 1 and H0038: 1. AR089: 40, AR316: 28, AR060: 18 H0618: 1		
2363	HTLGY50	839479	2373	337 - 1245	4970	Pro-78 to Arg-84, Glu-136 to Val-141, Gln-148 to Asp-154, Pro-215 to Arg-221.	AR089: 21, AR316: 18, AR060: 16 H0618: 3, L0748: 3, L0790: 2, L0749: 2, L0758: 2, H0305:		

2364	HTLHN86	896930	2374	1413 - 1976	4971	Phe-235 to Arg-245, Cys-251 to Cys-258, Lys-298 to Lys-303.	1, H0619; 1, H0586; 1, H0253; 1, L0794; 1, L0807; 1, S0052; 1, H0436; 1, L0779; 1, L0755; 1 and L0759; 1.	11pl1.2-pl1.12	133701, 168500, 171650, 176930, 176930, 600623, 600811, 600958
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2365	HTLHN86	838287	2375	1413 - 1976	4972	<p>1, H0246: 1, H0014: 1, L0163: 1, H0594: 1, S6028: 1, H0266: 1, H0188: 1, H0687: 1, H0288: 1, H0033: 1, H0181: 1, S0364: 1, S0366: 1, S0036: 1, H0038: 1, H0616: 1, H0264: 1, H0268: 1, H0117: 1, S0038: 1, H0100: 1, L0351: 1, L0435: 1, T0041: 1, T0042: 1, S0448: 1, S0142: 1, S0002: 1, H0529: 1, L0796: 1, L0639: 1, L5575: 1, L5566: 1, L0761: 1, L0374: 1, L0648: 1, L0768: 1, L0649: 1, L0803: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0659: 1, L0526: 1, L0783: 1, L0793: 1, H0144: 1, H0690: 1, H0660: 1, S0330: 1, H0539: 1, S0378: 1, S0152: 1, H0522: 1, H0694: 1, S0406: 1, H0555: 1, S3012: 1, S0390: 1, S3014: 1, S0028: 1, L0743: 1, L0779: 1, L0752: 1, H0444: 1, L0581: 1, H0543: 1, H0423: 1, S0458: 1 and H0506: 1.</p> <p>AR281: 73, AR315: 49, AR280: 45, AR194: 38, AR205: 36, AR314: 36, AR310: 33, AR202: 32, AR283: 31, AR266: 30, AR206: 29, AR033: 29, AR039: 29, AR263: 29, AR295: 28, AR246: 28, AR213: 27, AR289: 27, AR300: 27, AR055: 27, AR265: 26, AR270: 26, AR285: 26, AR096: 26, AR247: 25, AR309: 25, AR299: 25, AR282: 25, AR053: 24, AR291: 24, AR177: 23, AR284: 23,</p>	<p>133701, 168500, 171650, 176930, 176930, 600623, 600811, 600958</p>
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2367	HTLHN86	883351	2377	1413-1976	4974	1, H0246: 1, H0014: 1, L0163: 1, H0594: 1, S0028: 1, H0266: 1, H0188: 1, H0687: 1, H0288: 1, H0033: 1, H0181: 1, S0364: 1, S0366: 1, S0036: 1, H0038: 1, H0616: 1, H0264: 1, H0268: 1, H0117: 1, S0038: 1, H0100: 1, L0351: 1, L0435: 1, T0041: 1, T0042: 1, S0448: 1, S0142: 1, S0002: 1, H0529: 1, L0796: 1, L0639: 1, L5575: 1, L5566: 1, L0761: 1, L0374: 1, L0648: 1, L0768: 1, L0649: 1, L0803: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0659: 1, L0526: 1, L0783: 1, L0793: 1, H0144: 1, H0690: 1, H0660: 1, S0350: 1, H0539: 1, S0378: 1, S0152: 1, H0522: 1, H0694: 1, S0406: 1, H0555: 1, S3012: 1, S0390: 1, S3014: 1, S0028: 1, L0743: 1, L0779: 1, L0752: 1, H0444: 1, L0581: 1, H0543: 1, H0423: 1, S0458: 1 and H0506: 1.	1Hp11.2-pl1.12	133701, 168500, 171650, 176930, 176930, 600623, 600811, 600958
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2368	HTLIW29	899417	2378	10 - 954	4975	Arg-19 to Glu-25, Thr-86 to Gly-95, Pro-128 to Tyr-136, Glu-164 to Cys-171, Lys-180 to Ser-187, Cys-244 to Leu-249, Cys-262 to Gly-269, Gly-289 to Ser-296.	1, S3014: 1, S0028: 1, L0743: 1, L0779: 1, L0752: 1, H0444: 1, L0581: 1, H0543: 1, H0423: 1, S0458: 1 and H0506: 1. AR280: 17, AR244: 14, AR281: 13, AR314: 12, AR315: 11, AR277: 8, AR251: 7, AR198: 7, AR241: 7, AR186: 6, AR204: 6, AR202: 6, AR055: 6, AR060: 6, AR052: 3, AR206: 5, AR246: 5, AR273: 5, AR282: 5, AR243: 5, AR310: 5, AR061: 4, AR312: 4, AR033: 4, AR316: 4, AR213: 4, AR089: 4, AR313: 4, AR205: 4, AR185: 4, AR309: 4, AR253: 4, AR283: 3, AR299: 3, AR053: 3, AR269: 3, AR267: 3, AR104: 3, AR194: 3, AR096: 3, AR270: 3, AR274: 3, AR300: 3, AR182: 3, AR039: 3, AR289: 3, AR240: 2, AR227: 2, AR275: 2, AR249: 2, AR286: 2, AR292: 2, AR247: 2, AR293: 2, AR238: 2, AR295: 2, AR294: 2, AR231: 2, AR232: 2, AR234: 2, AR298: 2, AR290: 2, AR237: 2, AR175: 2, AR268: 2, AR285: 2, AR291: 1, AR183: 1, AR226: 1, AR233: 1, AR284: 1, AR271: 1.	16n13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 156850, 186580, 191092, 600140, 600273, 601313, 601785
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2369	HTLJC15	898235	996 - 1718	4976	<p>Pro-51 to Asp-56, Gly-95 to Thr-105, Val-132 to Ala-138, Pro-279 to Leu-240.</p>	<p>AR219: 1, AR296: 1, AR218: 1 L0758: 8, H0265: 2, H0038: 2, L0601: 2, S0424: 2, H0556: 1, H0618: 1, H0059: 1, S0382: 1, H0529: 1, L0374: 1, L0768: 1, L0751: 1, L0777: 1 and S0436: 1.</p>		
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2370	HTNAL14	886203	2380	166 - 261	4977	Leu-25 to Thr-31.	<p> 1, H0087: 1, T0004: 1, H0494: 1, S0438: 1, H0529: 1, L0763: 1, L0796: 1, L0761: 1, L0645: 1, L0773: 1, L0364: 1, L0561: 1, L0651: 1, L0653: 1, L0654: 1, L0655: 1, L0629: 1, L0657: 1, L0658: 1, H0725: 1, H0519: 1, H0682: 1, H0684: 1, H0670: 1, S0380: 1, H0518: 1, S0044: 1, S0406: 1, H0555: 1, H0436: 1, S0314: 1, L0749: 1, L0731: 1, L0759: 1, S0260: 1, H0445: 1, H0423: 1 and H0506: 1. S0212: 1, L0663: 10, L0752: 10, L0666: 8, L0775: 7, L0375: 7, L0659: 7, L0596: 7, L0662: 6, L0655: 6, S0344: 5, S0028: 5, H0580: 4, L0717: 4, L0646: 4, L0517: 4, L0384: 4, L0595: 4, H0581: 3, H0445: 3, L0608: 3, L0785: 2, S0360: 2, H0318: 2, L0471: 2, S0051: 2, L0351: 2, L0598: 2, L0369: 2, L0762: 2, L0638: 2, L0606: 2, L0657: 2, L0518: 2, L0783: 2, L0664: 2, H0436: 2, L0588: 2, L0605: 2, L0590: 2, L0591: 2, L0592: 2, L0599: 2, L0593: 2, L0362: 2, H0395: 1, H0657: 1, L0808: 1, H0341: 1, S0356: 1, S0358: 1, H0208: 1, H0486: 1, H0597: 1, H0046: 1, H0354: 1, S0334: 1, S0314: 1, S0250: 1, H0428: 1, H0332: 1, H0316: 1, S0036: 1, H0163: 1, H0551: 1, T0067: 1, H0413: 1, L0564: 1, H0560: 1, L0763: 1, L0371: 1, L0631: 1, L0769: 1, L0372: 1, L0374: 1, L0521: 1, L0651: 1, L0376: 1, L0523: 1, L0378: </p>
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2371	HTNAL34	588414	2381	225 - 296	4978	Sec-14 to Lys-23.	1, L0776: 1, L0633: 1, L0634: 1, L0383: 1, L0519: 1, L0532: 1, S0216: 1, S0374: 1, S0380: 1, L0602: 1, H0555: 1, S0390: 1, L0751: 1, L0750: 1, L0756: 1, L0753: 1, L0757: 1, L0682: 1, L0589: 1, L0594: 1, L0361: 1, L0601: 1, L0366: 1, S0026: 1, S0242: 1, S0196: 1 and L0718: 1.		
2372	HTNB115	834872	2382	1737 - 1892	4979	Sec-31 to Lys-39.	L0775: 3, H0150: 1 and T0667: 1. H0013: 14, L0748: 13, L0752: 8, L0771: 7, L0754: 7, S0222: 6, L0766: 6, L0731: 6, H0486: 5, H0251: 5, H0616: 5, L0805: 5, L0666: 5, H0144: 5, S0028: 4, L0665: 4, L0779: 4, H0421: 3, L0471: 3, L0662: 3, L0803: 3, H0539: 3, L0745: 3, L0758: 3, H0422: 3, S0412: 3, S0300: 2, H0438: 2, H0156: 2, H0050: 2, S0003: 2, H0591: 2, H0038: 2, T0067: 2, L0784: 2, L0661: 2, L0659: 2, L0526: 2, L0789: 2, L0791: 2, L0438: 2, H0658: 2, H0648: 2, S0378: 2, L0742: 2, L0750: 2, L0590: 2, S0026: 2, T0002: 1, H0583: 1, H0661: 1, H0664: 1, S0444: 1, S0360: 1, L0717: 1, H0411: 1, H0441: 1, H0455: 1, H0587: 1, H0331: 1, H0574: 1, H0004: 1, S0010: 1, S0346: 1, H0581: 1, H0052: 1, L0157: 1, H0051: 1, S0388: 1, H0099: 1, H0266: 1, H0188: 1, H0688: 1, H0039: 1, H0553: 1, L0055: 1, H0032: 1, S0366: 1, S0036: 1, H0488: 1, H0413: 1, H0100: 1, T0042: 1.	15q11-q13	103581, 146150, 176270, 218000, 227220, 601623, 601800, 601889, 602117

2373	HTNB15	845783	2383	1737- 1892	4980	See-31 to Lys-39.	<p>H0494: 1, H0625: 1, H0529: 1, L0638: 1, L0800: 1, L0794: 1, L0649: 1, L0381: 1, L0804: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0607: 1, L0809: 1, L0532: 1, L0663: 1, H0519: 1, H0689: 1, H0683: 1, S0328: 1, H0518: 1, S0406: 1, H0478: 1, L0744: 1, L0439: 1, L0756: 1, S0260: 1, L0592: 1, S0192: 1, S0194: 1, H0543: 1, S0438: 1 and L0462: 1.</p> <p>H0013: 14, L0748: 13, L0752: 8, L0771: 7, L0754: 7, S0222: 6, L0766: 6, L0731: 6, H0486: 5, H0251: 5, H0616: 5, L0805: 5, L0666: 5, H0144: 5, S6028: 4, L0665: 4, L0779: 4, H0421: 3, L0471: 3, L0662: 3, L0803: 3, H0539: 3, L0745: 3, L0758: 3, H0422: 3, S0412: 3, S0300: 2, H0438: 2, H0156: 2, H0050: 2, S0003: 2, H0591: 2, H0038: 2, T0067: 2, L0784: 2, L0661: 2, L0639: 2, L0526: 2, L0789: 2, L0791: 2, L0438: 2, H0658: 2, H0648: 2, S0378: 2, L0742: 2, L0736: 2, L0590: 2, S0026: 2, T0002: 1, H0583: 1, H0661: 1, H0664: 1, S0444: 1, S0360: 1, L0717: 1, H0411: 1, H0441: 1, H0455: 1, H0587: 1, H0331: 1, H0574: 1, H0004: 1, S0010: 1, S0346: 1, H0581: 1, H0052: 1, L0157: 1, H0051: 1, S0388: 1, H0099: 1, H0266: 1, H0188: 1, H0688: 1, H0039: 1, H0553: 1, L0055: 1, H0032: 1, S0366: 1, S0036: 1, H0488: 1, H0413: 1, H0100: 1, T0042: 1.</p>	15q11-q13	103581, 146150, 176270, 218000, 227220, 601623, 601800, 601889, 602117
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2374	HTNB115	855916	2384	1737 - 1892	4981	Ser-31 to Lys-39.	H0494: 1, H0625: 1, H0529: 1, L0638: 1, L0800: 1, L0794: 1, L0649: 1, L0381: 1, L0804: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0607: 1, L0809: 1, L0532: 1, L0663: 1, H0519: 1, H0689: 1, H0683: 1, S0328: 1, H0518: 1, S0406: 1, H0478: 1, L0744: 1, L0439: 1, L0756: 1, S0260: 1, L0592: 1, S0192: 1, S0194: 1, H0543: 1, S0458: 1 and L0462: 1. H0013: 14, L0748: 13, L0752: 8, L0771: 7, L0754: 7, S0222: 6, L0766: 6, L0731: 6, H0486: 5, H0251: 5, H0616: 5, L0805: 5, L0666: 5, H0144: 5, S0228: 4, L0665: 4, L0779: 4, H0421: 3, L0471: 3, L0662: 3, L0803: 3, H0539: 3, L0745: 3, L0758: 3, H0422: 3, S0412: 3, S0300: 2, H0438: 2, H0156: 2, H0050: 2, S0003: 2, H0591: 2, H0038: 2, T0067: 2, L0784: 2, L0661: 2, L0659: 2, L0526: 2, L0789: 2, L0791: 2, L0438: 2, H0658: 2, H0648: 2, S0378: 2, L0742: 2, L0750: 2, L0590: 2, S0026: 2, T0002: 1, H0583: 1, H0661: 1, H0664: 1, S0444: 1, S0360: 1, L0717: 1, H0411: 1, H0441: 1, H0455: 1, H0587: 1, H0331: 1, H0574: 1, H0004: 1, S0010: 1, S0346: 1, H0581: 1, H0052: 1, L0157: 1, H0051: 1, S0388: 1, H0099: 1, H0266: 1, H0188: 1, H0688: 1, H0039: 1, H0553: 1, L0055: 1, H0032: 1, S0366: 1, S0036: 1, H0488: 1, H0413: 1, H0100: 1, T0042: 1.
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2375	HTNB115	884024	2385	1737 - 1892	4982	Ser-31 to Lys-39.	<p>H0494: 1, H0625: 1, H0529: 1, H0638: 1, L0800: 1, L0794: 1, L0649: 1, L0381: 1, L0804: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0607: 1, L0809: 1, L0532: 1, L0663: 1, H0519: 1, H0689: 1, H0683: 1, S0328: 1, H0518: 1, S0406: 1, H0478: 1, L0744: 1, L0439: 1, L0756: 1, S0260: 1, L0592: 1, S0192: 1, S0194: 1, H0543: 1, S0438: 1 and L0462: 1.</p> <p>H0013: 14, L0748: 13, L0752: 8, L0771: 7, L0754: 7, S0222: 6, L0766: 6, L0731: 6, H0486: 5, H0251: 5, H0616: 5, L0805: 5, L0666: 5, H0144: 5, S0028: 4, L0665: 4, L0779: 4, H0421: 3, L0471: 3, L0662: 3, L0803: 3, H0539: 3, L0745: 3, L0758: 3, H0422: 3, S0412: 3, S0300: 2, H0438: 2, H0156: 2, H0050: 2, S0003: 2, H0591: 2, H0038: 2, T0067: 2, L0784: 2, L0661: 2, L0639: 2, L0526: 2, L0789: 2, L0791: 2, L0438: 2, H0658: 2, H0648: 2, S0378: 2, L0742: 2, L0750: 2, L0590: 2, S0026: 2, T0002: 1, H0583: 1, H0661: 1, H0664: 1, S0444: 1, S0360: 1, L0717: 1, H0411: 1, H0441: 1, H0455: 1, H0587: 1, H0331: 1, H0574: 1, H0004: 1, S0010: 1, S0346: 1, H0581: 1, H0052: 1, L0157: 1, H0051: 1, S0388: 1, H0099: 1, H0266: 1, H0188: 1, H0688: 1, H0039: 1, H0553: 1, L0055: 1, H0032: 1, S0366: 1, S0036: 1, H0488: 1, H0413: 1, H0100: 1, T0042: 1.</p>	15q11-q13	<p>103581, 146150, 176270, 218000, 227220, 601623, 601800, 601889, 602117</p>
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2376	HTOAC65	791689	2386	551 - 637	4983		Pro-6 to Gly-12.		H0494: 1, H0625: 1, H0529: 1, L0638: 1, L0800: 1, L0794: 1, L0649: 1, L0381: 1, L0804: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0607: 1, L0809: 1, L0532: 1, L0663: 1, H0519: 1, H0689: 1, H0683: 1, S0328: 1, H0518: 1, S0406: 1, H0478: 1, L0744: 1, L0439: 1, L0756: 1, S0260: 1, L0592: 1, S0192: 1, S0194: 1, H0543: 1, S0458: 1 and L0462: 1.	
2377	HTOAE47	863188	2387	138 - 185	4984				L0766: 3, H0556: 2, H0264: 2 and H0255: 1.	
2378	HTOAK03	581103	2388	64 - 219	4985		Cys-27 to Gln-33, Ser-36 to Phe-43.		H0265: 1, H0402: 1 and H0264: 1.	
2379	HTOAO58	855972	2389	157 - 261	4986				L0471: 2, H0622: 2, H0264: 2, L0803: 2, H0542: 2, H0411: 1, H0052: 1, T0010: 1, L0641: 1, L0643: 1, L0374: 1, L0662: 1, L0794: 1, L0766: 1, L0804: 1, L0523: 1, L0805: 1, L0655: 1, L0606: 1, L0791: 1, H0547: 1, H0519: 1 and H0689: 1.	Xq26
2380	HTOAT56	702026	2390	85 - 441	4987		Asn-36 to Tyr-44, Thr-107 to Trp-113.		H0264: 1 and L0666: 1.	300037, 300076, 300123, 301201, 301845, 301900, 304340, 307150, 307700, 308000, 308000, 308230, 309555, 310490, 312000, 313350, 313850
									AR212: 44, AR233: 37, AR291: 36, AR295: 36, AR196: 34, AR266: 34, AR240: 31, AR213: 31, AR200: 30, AR285: 30, AR261: 29, AR236: 28,	17qler

[illegible]

ARI89: 14, ARI78: 14, ARI73: 14, AR260: 14, ARI80: 13, AR270: 13, AR215: 13, AR234: 13, AR257: 13, AR219: 13, ARI83: 13, AR204: 12, AR210: 12, AR060: 12, AR211: 12, AR274: 12, AR308: 12, AR290: 12, AR033: 11, AR313: 11, ARI04: 11, AR231: 11, ARI82: 11, ARI85: 10, ARI79: 10, AR267: 10, AR238: 10, AR239: 10, AR232: 10, AR229: 10, AR233: 9, AR226: 9, AR061: 9, AR228: 8, AR230: 8, AR237: 8, AR227: 7 H0521: 29, L0751: 14, S0440: 12, H0617: 11, S0360: 10, L0659: 10, L0771: 9, L0665: 9, H0522: 9, H0484: 8, L0766: 8, H0641: 7, L0666: 7, L0747: 7, H0580: 6, L0655: 6, L0748: 6, L0750: 6, L0779: 6, L0759: 6, H0657: 5, L0663: 5, H0445: 5, S0358: 4, S0278: 4, S0366: 4, S0422: 4, L0775: 4, L0806: 4, L0439: 4, L0757: 4, S0436: 4, H0265: 3, H0656: 3, H0638: 3, H0370: 3, H0592: 3, H0581: 3, H0012: 3, H0412: 3, S0150: 3, L0770: 3, L0769: 3, L0773: 3, L0662: 3, L0774: 3, L0664: 3, H0666: 3, L0749: 3, S0434: 3, H0556: 2, H0685: 2, H0483: 2, S0418: 2, S0356: 2, S0376: 2, S0408: 2, H0733: 2, H0586: 2, H0486: 2, L0471: 2,

2381	HTOBG07	566862	2391	1123 - 1137	4988	L0593: 1, S0194: 1, H0542: 1, S0424: 1 and H0506: 1. AR251: 13, AR313: 11, AR309: 11, AR312: 10, AR053: 9, AR310: 9, AR274: 9, AR229: 9, AR052: 9, AR273: 8, AR186: 8, AR270: 7, AR269: 7, AR213: 7, AR266: 7, AR267: 7, AR296: 7, AR253: 7, AR184: 7, AR061: 6, AR060: 6, AR291: 6, AR265: 6, AR271: 6, AR182: 6, AR237: 6, AR248: 6, AR247: 6, AR238: 6, AR089: 6, AR283: 6, AR290: 6, AR263: 6, AR289: 6, AR185: 6, AR316: 6, AR183: 6, AR055: 6, AR268: 6, AR282: 5, AR244: 5, AR096: 5, AR299: 5, AR285: 5, AR243: 5, AR286: 5, AR292: 5, AR300: 5, AR298: 4, AR284: 4, AR198: 4, AR202: 4, AR033: 4, AR204: 4, AR293: 4, AR277: 4, AR275: 4, AR175: 4, AR206: 4, AR241: 4, AR240: 4, AR295: 4, AR294: 3, AR234: 3, AR192: 3, AR231: 3, AR233: 3, AR039: 3, AR249: 3, AR218: 3, AR177: 3, AR246: 3, AR104: 3, AR256: 3, AR226: 3, AR227: 2.
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2382	HTOBG62	566830	2392	90 - 200	4989			AR219: 2, AR205: 2, AR239: 2, AR232: 2, AR258: 2, AR179: 2, AR314: 1 T0040: 1, H0272: 1, S0028: 1 and L0366: 1.		
2383	HTODA92	849216	2393	1525 - 1713	4990	Ala-13 to Asp-18.		AR089: 24, AR316: 18, AR060: 12 H0556: 1, H0272: 1 and H0444: 1. AR089: 16, AR316: 12, AR060: 8 S0358: 8, L0803: 8, L0439: 8, L0766: 7, L0754: 5, L0777: 5, L0731: 5, L0794: 4, L0745: 4, L0750: 4, H0373: 3, S0422: 3, L0804: 3, L0747: 3, L0752: 3, S0360: 2, S0007: 2, H0531: 2, H0318: 2, S0003: 2, H0688: 2, H0428: 2, H0264: 2, H0529: 2, L0771: 2, L0775: 2, L0783: 2, L0541: 2, L0438: 2, H0547: 2, S0328: 2, S0330: 2, H0521: 2, H0696: 2, S0404: 2, L0751: 2, L0755: 2, L0596: 2, H0542: 2, H0170: 1, H0171: 1, T0002: 1, H0657: 1, S0442: 1, S0354: 1, S0444: 1, H0675: 1, S0408: 1, H0586: 1, L0021: 1, H0575: 1, H0036: 1, H0123: 1, L0471: 1, S0388: 1, H0375: 1, S6028: 1, H0179: 1, H0271: 1, H0252: 1, H0615: 1, L0142: 1, L0055: 1, H0032: 1, H0212: 1, H0316: 1, T0067: 1, H0509: 1, H0646: 1, L0520: 1, L0770: 1, L0772: 1, L0662: 1, L0768: 1, L0774: 1, L0805: 1, L0776: 1, L0634: 1, L0659: 1, L0526: 1, L0809: 1, L0529: 1, L0647: 1, L0790:		

2384	HTODN35	570901	2394	67 - 111	4991				1, L0666: 1, L0663: 1, L0665: 1, S0374: 1, H0520: 1, H0519: 1, H0689: 1, H0690: 1, H0658: 1, H0672: 1, H0539: 1, S0406: 1, L0740: 1, L0756: 1, L0759: 1, H0444: 1, H0445: 1, S0308: 1, H0343: 1, L0485: 1, L0608: 1, S0242: 1, H0543: 1, H0423: 1 and H0506: 1.		
								AR060: 10, AR316: 10, AR089: 9 H0264: 1			
2385	HTOD045	823125	2395	502 - 552	4992			H0264: 1			
2386	HTOEAS3	842764	2396	56 - 151	4993			H0598: 1, H0264: 1, L0367: 1 and H0555: 1.			
2387	HTOEB55	665897	2397	139 - 198	4994	Ser-13 to Gly-18.		L0747: 5, L0731: 4, L0750: 3, H0392: 2, L0519: 2, S0452: 2, S0360: 1, S0007: 1, H0574: 1, L0021: 1, H0575: 1, H0123: 1, H0024: 1, H0598: 1, H0163: 1, H0090: 1, H0264: 1, H0272: 1, L0475: 1, L0763: 1, L0533: 1, L0526: 1, L0438: 1 and L0754: 1.	14q24	107970, 115650, 182600, 602091	
2388	HTOEB76	688060	2398	325 - 345	4995			AR089: 19, AR316: 16, AR060: 13 L0805: 3, H0436: 2, H0264: 1, L0766: 1, L0793: 1 and H0547: 1.			
2389	HTOET03	845230	2399	518 - 592	4996			H0556: 18, L0766: 4, H0265: 3, H0040: 3, L0764: 3, L0803: 3, L0748: 3, L0439: 3, L0747: 3, L0758: 3, H0141: 2, H0585: 2, H0619: 2, H0581: 2, H0634: 2, L0770: 2, L0800: 2, L0771: 2, S0332: 2, L0750: 2, L0595: 2, H0657: 1, S0418: 1, S0046: 1, H0393: 1, H0357: 1, H0156: 1, H0042: 1, H0575: 1, S0010: 1.			

2390	HTOET03	837213	2400	518 - 592	4997			1, T0048: 1, S0182: 1, H0251: 1, H0086: 1, H0012: 1, H0083: 1, H0266: 1, H0606: 1, H0087: 1, H0264: 1, S0038: 1, H0561: 1, S0208: 1, S0426: 1, L0369: 1, L0372: 1, L0646: 1, L0648: 1, L0364: 1, L0794: 1, L0804: 1, L0774: 1, L0378: 1, L0807: 1, L0658: 1, L0526: 1, L0666: 1, L0663: 1, L0665: 1, H0435: 1, H0659: 1, H0214: 1, S0028: 1, L0751: 1, L0757: 1, L0759: 1 and H0422: 1.	
								H0556: 18, L0766: 4, H0265: 3, H0040: 3, L0764: 3, L0803: 3, L0748: 3, L0439: 3, L0747: 3, L0758: 3, H0141: 2, H0585: 2, H0619: 2, H0581: 2, H0634: 2, L0770: 2, L0800: 2, L0771: 2, S0332: 2, L0750: 2, L0595: 2, H0657: 1, S0418: 1, S0046: 1, H0393: 1, H0357: 1, H0156: 1, H0042: 1, H0575: 1, S0010: 1, T0048: 1, S0182: 1, H0251: 1, H0086: 1, H0012: 1, H0083: 1, H0266: 1, H0606: 1, H0087: 1, H0264: 1, S0038: 1, H0561: 1, S0208: 1, S0426: 1, L0369: 1, L0372: 1, L0646: 1, L0648: 1, L0364: 1, L0794: 1, L0804: 1, L0774: 1, L0378: 1, L0807: 1, L0658: 1, L0526: 1, L0666: 1, L0663: 1, L0665: 1, H0435: 1, H0659: 1, H0214: 1, S0028: 1, L0751: 1, L0757: 1, L0759: 1 and H0422: 1.	
2391	HTOEV01	634653	2401	194 - 334	4998	Asst-1 to Gly-6.		AR241: 9, AR192: 7, AR198: 7, AR194: 7, AR204: 7, AR186: 6, AR282: 6, AR275: 6.	

2392	HTOFA11	637719	2402	99 - 230	4999	Lys-32 to Lys-40.	AR205: 6, AR313: 6, AR251: 6, AR243: 6, AR271: 6, AR246: 6, AR185: 5, AR060: 5, AR247: 5, AR089: 5, AR244: 5, AR274: 5, AR273: 5, AR229: 5, AR104: 5, AR039: 5, AR226: 5, AR055: 5, AR312: 5, AR316: 5, AR061: 5, AR263: 5, AR233: 4, AR202: 4, AR227: 4, AR293: 4, AR206: 4, AR238: 4, AR096: 4, AR299: 4, AR295: 4, AR053: 4, AR052: 4, AR240: 4, AR310: 4, AR033: 4, AR253: 3, AR237: 3, AR309: 3, AR294: 3, AR231: 3, AR232: 3, AR292: 3, AR177: 3, AR183: 3, AR213: 3, AR266: 3, AR277: 3, AR234: 3, AR283: 3, AR300: 3, AR175: 3, AR249: 3, AR270: 3, AR269: 3, AR259: 2, AR219: 2, AR218: 2, AR182: 2, AR179: 2, AR267: 2, AR184: 2, AR248: 2, AR286: 2, AR258: 2, AR296: 2, AR315: 1, AR256: 1, AR268: 1, AR284: 1, AR298: 1, AR289: 1, AR285: 1 L0749: 2, L0483: 1, H0264: 1 and S0044: 1.	6p21.3	106300, 108800.
							AR089: 76, AR316: 56,		

						AR060: 37 H0521: 55, H0580: 17, H0522: 17, H0638: 8, H0486: 6, H0090: 6, H0583: 5, S0358: 5, H0445: 5, S0442: 4, H0591: 4, H0050: 3, H0634: 3, H0264: 3, H0648: 3, L0599: 3, H0657: 2, H0656: 2, H0125: 2, S0408: 2, H0586: 2, H0069: 2, H0635: 2, H0086: 2, H0561: 2, L0748: 2, L0745: 2, S0434: 2, H0556: 1, H0619: 1, H0393: 1, H0592: 1, H0574: 1, H0250: 1, H0575: 1, H0004: 1, H0318: 1, H0581: 1, H0421: 1, H0242: 1, H0109: 1, H0252: 1, T0023: 1, H0673: 1, H0063: 1, H0488: 1, S0440: 1, H0641: 1, H0647: 1, H0646: 1, S0002: 1, S0426: 1, L0768: 1, L0649: 1, L0659: 1, H0702: 1, H0670: 1, H0539: 1, H0709: 1, H0518: 1, S0146: 1, H0134: 1, L0744: 1, L0754: 1, L0755: 1, S0260: 1 and H0677: 1.				120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
2393	HTOFC33	824604	2403	159 - 230	5000	H0264: 1				
2394	HTOGB79	762835	2404	138 - 260	5001	AR089: 7, AR316: 5, AR060: 4 S0010: 1, H0024: 1, H0264: 1, S0464: 1, L0763: 1, L0650: 1, L0791: 1, L0665: 1, H0684: 1, L0759: 1 and H0422: 1.				
2395	HTOHE22	821698	2405	358 - 402	5002	H0264: 1				
2396	HTOHG63	834832	2406	922 - 1035	5003	AR060: 2, AR316: 2, AR089: 2 Met-1 to Ala-6.				
2397	HTONJ93	762836	2407	86 - 133	5004	H0264: 1				
2398	HTOHM12	740771	2408	100 - 195	5005	L0520: 3, H0052: 1 and H0445: 1.				
2399	HTOIM82	732366	2409	26 - 241	5006	S0376: 1, H0264: 1, L0646:				

2400	HTOHIN40	843372	2410	50 - 154	5007			1, S0216: 1, S0152: 1, H0555: 1, L0759: 1 and H0667: 1, H0123: 1 and H0264: 1, S0356: 1, S0222: 1, H0264: 1 and L0558: 1,	
2401	HTOHR59	762850	2411	110 - 223	5008			AR060: 9, AR316: 9, AR089: 9, H0024: 3, L0764: 3, L0766: 2, L0758: 2, H0657: 1, S0045: 1, T0039: 1, H0318: 1, H0123: 1, T0067: 1, H0264: 1, L0771: 1, L0775: 1, L0659: 1, L0647: 1, S0378: 1, H0479: 1, L0748: 1, L0749: 1, L0779: 1, L0777: 1, L0780: 1, L0759: 1, L0608: 1 and S0452: 1,	
2402	HTOHS29	722256	2412	275 - 319	5009			AR089: 9, AR060: 12, AR316: 11, AR176: 2, AR243: 2, AR252: 2, AR261: 2, AR171: 2, AR204: 2, AR172: 2, AR195: 2, AR291: 2, AR283: 2, AR262: 2, AR277: 1, AR181: 1, AR263: 1, AR313: 1, AR296: 1, AR232: 1, AR299: 1, AR193: 1, AR257: 1, L0769: 6, S0046: 2, H0213: 2, L0662: 2, L0657: 2, L0809: 2, L0439: 2, L0747: 2, L0731: 2, L0758: 2, S0434: 2, S0418: 1, H0619: 1, H0645: 1, H0441: 1, H0486: 1, H0544: 1, H0545: 1, H0046: 1, H0123: 1, H0428: 1, H0135: 1, H0264: 1, H0100: 1, T0041: 1, H0494: 1, S0002: 1, L0372: 1, L0771: 1, L0767: 1, L0665: 1, H0144: 1, H0547: 1, S0350: 1, L0748: 1, L0750: 1,	
2403	HTOID65	636069	2413	56 - 166	5010				

2404	HTOI17	688061	2414	99 - 206	5011		1, L0779; 1, S0436; 1 and S0242; 1.		
2405	HTOI16	845999	2415	160 - 231	5012		H0264; 1, L0523; 1, H0555; 1, L0748; 1 and H0445; 1.		
2406	HTOI139	839245	2416	215 - 307	5013		H0264; 1 and S0152; 1.		
2407	HTOI151	843408	2417	296 - 439	5014	Ile-20 to Asn-26.	H0264; 1		
2408	HTOI150	600376	2418	107 - 511	5015	Glu-27 to Gly-35.	S0114; 1, H0264; 1, L0526; 1 and L0664; 1.		
2409	HTOI126	821702	2419	1034 - 1180	5016	Gly-2 to Ser-12, Arg-58 to Gly-63, Thr-81 to Glu-87, Ala-98 to Lys-103.	H0271; 2, S0134; 1 and H0264; 1.		
2410	HTOI125	853623	2420	268 - 369	5017		L0517; 2, L0748; 2, S0040; 1, S0114; 1, S0354; 1, H0264; 1, H0538; 1 and H0444; 1.		
2411	HTOI123	737735	2421	130 - 291	5018	Val-31 to Arg-36.	H0656; 1 and H0264; 1.		
2412	HTOI156	664504	2422	244 - 345	5019		H0305; 4, H0255; 2, L0766; 2, H0580; 1, H0264; 1, L0779; 1 and H0445; 1.		
							L0766; 12, L0769; 7, H0547; 7, L0748; 7, L0740; 6, L0747; 5, L0779; 5, L0731; 5, S0418; 4, S0376; 4, H0009; 4, L0776; 4, L0809; 4, L0438; 4, H0539; 4, L0751; 4, L0750; 4, L0756; 4, L0757; 4, L0593; 4, H0556; 3, S0444; 3, H0550; 3, H0052; 3, H0494; 3, L0774; 3, L0666; 3, S0330; 3, H0555; 3, L0596; 3, H0657; 2, S0358; 2, H0549; 2, S0222; 2, H0587; 2, N0006; 2, L0471; 2, H0510; 2, H0628; 2, H0135; 2, H0591; 2, H0264; 2, H0413; 2, S0372; 2, L0639; 2, L0764; 2, L0803; 2, L0783; 2, H0144; 2, H0519; 2, H0521; 2, S3012; 2, L0752; 2, L0587; 2, L0588; 2, L0605; 2, L0591; 2, H0352; 2, H0294; 1, S0134; 1.		

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2413	HTOJZ18	844388	2423	234 - 335	5020		AR060: 10, AR316: 7, AR089: 4 Ser-34 to Thr-40.
2414	HTPCG10	746488	2424	145 - 306	5021		L0747: 6, H0046: 5, L0749: 5, L0777: 5, L0752: 4, L0438: 3, L0731: 3, S0360: 2, H0031:

2415	HTPC075	853645	2425	73 - 195	5022	<p>AR089: 9, AR316: 9, AR060: 8 H0039: 5, L0756: 5, S0448: 3, L0759: 3, H0265: 2, S0354: 2, L0471: 2, H0674: 2, L0805: 2, L0517: 2, L0666: 2, L0779: 2, L0777: 2, L0758: 2, H0170: 1, H0556: 1, S0342: 1, S0134: 1, H0637: 1, H0599: 1, H0318: 1, H0263: 1, H0596: 1, H0252: 1, H0428: 1, H0673: 1, H0040: 1, H0264: 1, H0268: 1, H0538: 1, S0422: 1, L0764: 1, L0768: 1, L0794: 1, L0766: 1, L0804: 1, L0774: 1, L0652: 1, L0527: 1, L0809: 1, L0519: 1, L0791: 1, H0144: 1, H0520: 1, H0519: 1, H0689: 1, H0648: 1, S0028:</p>	<p>2, H0144: 2, L0745: 2, L0779: 2, L0738: 2, L0759: 2, H0445: 2, L0599: 2, S0196: 2, H0170: 1, H0171: 1, H0381: 1, S0116: 1, H0638: 1, S0007: 1, L0717: 1, H0013: 1, H0036: 1, S0010: 1, H0318: 1, H0052: 1, H0597: 1, H0569: 1, L0471: 1, H0012: 1, H0024: 1, S0051: 1, T0010: 1, H0375: 1, S0214: 1, H0328: 1, H0039: 1, H0622: 1, L0142: 1, L0143: 1, H0163: 1, H0090: 1, H0591: 1, H0038: 1, H0264: 1, L0770: 1, L0769: 1, L0638: 1, L0639: 1, L0646: 1, L0764: 1, L0771: 1, L0768: 1, L0794: 1, L0776: 1, L0655: 1, L0606: 1, L0809: 1, L0666: 1, H0670: 1, H0648: 1, H0710: 1, H0521: 1, H0555: 1, L0743: 1, L0757: 1, H0595: 1, S0434: 1 and H0506: 1.</p>
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2416	HTPCW21	737839	2426	171 - 353	5023				S0380: 2, H0052: 1, H0039: 1 and H0478: 1.			
2417	HTPDD68	590530	2427	509 - 604	5024				L0794: 14, L0766: 12, L0439: 9, H0547: 7, H0520: 6, H0435: 5, L0664: 4, L0756: 4, S0376: 3, H0251: 3, H0529: 3, L0659: 3, L0755: 3, S0026: 3, H0657: 2, S0418: 2, L0646: 2, L0768: 2, L0789: 2, H0519: 2, H0672: 2, H0555: 2, L0754: 2, L0747: 2, L0779: 2, L0777: 2, L0731: 2, L0759: 2, L0589: 2, L0581: 2, L0608: 2, L0593: 2, H0542: 2, H0423: 2, H0422: 2, T0002: 1, S0040: 1, H0650: 1, H0662: 1, S0420: 1, S0444: 1, H0380: 1, H0229: 1, L0717: 1, H0497: 1, H0486: 1, H0244: 1, H0318: 1, H0381: 1, H0596: 1, L0041: 1, H0009: 1, L0471: 1, H0266: 1, S0214: 1, H0252: 1, H0039: 1, L0055: 1, S0036: 1, H0090: 1, H0412: 1, H0623: 1, H0059: 1, S0038: 1, H0494: 1, S0150: 1, L0637: 1, L0641: 1, L0764: 1, L0771: 1, L0803: 1, L0804: 1, L0775: 1, L0375: 1, L0657: 1, L0518: 1, L0809: 1, L0666: 1, H0144: 1, H0701: 1, H0711: 1, H0659: 1, H0670: 1, H0660: 1, H0648: 1, L0602: 1, S0028: 1, L0744: 1, L0748: 1, L0780: 1, L0591: 1, L0594: 1, L0366: 1 and H0665: 1.	12q14		123829, 147570, 181430, 252940, 264700, 600808, 601284, 601769, 601769, 602116
2418	HTPDV75	608143	2428	240 - 383	5025				Glu-20 to Arg-27.			
2419	HTSER28	846644	2429	153 - 194	5026				AR089: 4, AR316: 4,			1pter-q31.3

2420	HTSET62	833692	2430	1147 - 1200	5027			AR060: 4 L0804: 2, L0750: 2, L0752: 2, S0420: 1, S0408: 1, L0717: 1, H0632: 1, H0599: 1, L0471: 1, H0169: 1, H0087: 1, H0264: 1, H0100: 1, T0042: 1, L0770: 1, L0769: 1, L0764: 1, L0794: 1, L0649: 1, L0803: 1, L0775: 1, L0792: 1, H0696: 1, L0748: 1 and L0779: 1. L0769: 8, L0743: 8, H0031: 2 4, L0748: 4, L0747: 4, H0619: 3, H0144: 3, S0360: 2, H0575: 2, L0794: 2, L0789: 2, L0744: 2, L0757: 2, L0599: 2, L0604: 2, S0040: 1, S0212: 1, H0333: 1, L0021: 1, S0314: 1, H0087: 1, H0100: 1, S0039: 1, L0763: 1, L0654: 1, L0807: 1, L0809: 1, L0791: 1, H0520: 1, H0593: 1, H0672: 1, H0696: 1, L0740: 1, L0779: 1, L0777: 1, L0731: 1 and L0758: 1.	
2421	HTSPV18	609939	2431	134 - 286	5028	Cys-7 to Ser-16, Pro-33 to Arg-50.	AR309: 3, AR171: 3, AR224: 2, AR172: 2, AR039: 2, AR264: 2, AR243: 2, AR089: 1, AR217: 1, AR161: 1, AR263: 1, AR282: 1, AR163: 1, AR299: 1, AR193: 1, AR162: 1, AR277: 1 H0156: 175, S0001: 2, H0370: 2, H0428: 2, L0517: 2, H0593: 2, L0742: 2, L0779: 2, H0713: 1, H0484: 1, H0438: 1, H0570: 1, H0123: 1, H0620: 1, H0617: 1, S0036: 1, H0087: 1, S0038: 1, L0650: 1, S0053: 1, H0670: 1, H0660: 1, L0743: 1,	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716

2422	HTSGO13	789723	2432	699 - 848	5029	His11 to Gln-16, Asp-26 to Tyr-33.	L0439: 1, S0031: 1, L0605: 1 and L0361: 1. AR060: 8, AR316: 8, H0820: 8 H0620: 2, H0617: 2, H0087: 2, L0439: 2, H0254: 1, S0442: 1, S0278: 1, L0622: 1, H0012: 1, S0388: 1, H0674: 1, H0163: 1, L0639: 1, L0645: 1, L0659: 1, L0519: 1, H0521: 1, S3014: 1, L0747: 1, L0366: 1 and H0543: 1. AR089: 48, AR316: 35, AR060: 22 H0087: 1	15q11.2-q21.3	103581, 109700, 146150, 151670, 203200, 203200, 227220, 601623, 601780, 601800, 601889, 602117
2423	HTSGO88	634834	2433	249 - 314	5030		AR089: 48, AR316: 35, AR060: 22 H0087: 1		
2424	HTTAH05	772560	2434	39 - 146	5031		H0040: 1 and L0766: 1		
2425	HTTAP37	738417	2435	104 - 241	5032		H0591: 2, L0779: 2, H0580: 1, L0586: 1, H0212: 1, H0040: 1, S0422: 1, L0768: 1, L0649: 1, L0663: 1, H0520: 1, H0547: 1, H0689: 1, H0659: 1, H0648: 1, L0748: 1, L0747: 1, L0749: 1, L0758: 1, H0668: 1 and S0026: 1.		
2426	HTTB138	863131	2436	585 - 632	5033		AR221: 5, AR225: 5, AR269: 5, AR215: 5, AR313: 4, AR169: 4, AR162: 4, AR161: 4, AR163: 4, AR217: 4, AR274: 4, AR270: 3, AR176: 3, AR268: 3, AR183: 3, AR181: 3, AR224: 3, AR257: 3, AR182: 3, AR173: 3, AR216: 2, AR243: 2, AR165: 2, AR272: 2, AR178: 2, AR300: 2, AR238: 2, AR309: 2, AR164: 2, AR171: 2,		

2427	HTTDB11	638132	2437	130 - 243	5034	Asm-32 to Gln-37.	AR229: 2, AR291: 2, AR255: 2, AR299: 2, AR247: 2, AR096: 2, AR213: 2, AR089: 2, AR226: 2, AR228: 2, AR277: 2, AR261: 2, AR237: 2, AR234: 2, AR239: 2, AR282: 2, AR267: 2, AR189: 2, AR231: 2, AR296: 2, AR312: 2, AR233: 2, AR316: 2, AR240: 2, AR203: 2, AR190: 2, AR166: 2, AR168: 2, AR200: 1, AR061: 1, AR033: 1, AR290: 1, AR172: 1, AR242: 1, AR288: 1, AR179: 1, AR264: 1, AR177: 1, AR060: 1, AR283: 1, AR170: 1, AR311: 1, AR230: 1, AR293: 1, AR193: 1, AR250: 1, AR258: 1, AR262: 1, AR174: 1, AR235: 1, L0766: 3, H0580: 2, H0581: 2, L0665: 2, L0744: 2, L0002: 1, L0808: 1, S0046: 1, H0392: 1, H0331: 1, H0575: 1, H0457: 1, H0553: 1, H0674: 1, H0598: 1, H0040: 1, H0551: 1, H0413: 1, S0002: 1, H0529: 1, L0803: 1, L0529: 1, L0530: 1, L0666: 1, H0436: 1, S3014: 1, L0742: 1, L0740: 1, L0750: 1, L0777: 1, L0755: 1, L0757: 1, H0445: 1, S0436: 1, L0592: 1, H0543: 1 and S0456: 1.	
						Asm-32 to Gln-37.	L0758: 1, S0126: 10, H0170: 6, L0747: 6, H0594: 5,	

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2428	HTTDG27	608318	2438	277 - 576	5035	<p>L0770: 1, L0772: 1, L0662: 1, L0768: 1, L0550: 1, L0774: 1, L0651: 1, L0379: 1, L0518: 1, L4501: 1, L0666: 1, L0665: 1, S0053: 1, H0520: 1, H0690: 1, H0670: 1, H0648: 1, S0378: 1, H0521: 1, H0522: 1, H0187: 1, H0436: 1, S0392: 1, L0756: 1, L0755: 1, H0595: 1, L0590: 1, H0667: 1, H0136: 1, H0543: 1, H0423: 1 and H0721: 1.</p>		
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2429	HTTDN24	766485	2439	1024 - 1728	5036	Asp-194 to Leu-199, Ile-206 to Pro-211, Glu-224 to Ser-229.	AR296: 2, AR259: 2, AR183: 2, AR290: 2, AR218: 2, AR219: 1, AR039: 1, AR256: 1, AR227: 1, AR289: 1, AR286: 1, AR291: 1, AR268: 1, AR258: 1, L0598: 2 and H0040: 1, AR089: 15, AR316: 11, AR060: 7	19q13.4	134790, 191044, 600040, 600138
2430	HTTDO33	899418	2440	22 - 756	5037	Thr-84 to Pro-90, Lys-144 to Arg-149, Ile-151 to Gln-159, Ser-188 to Asn-198.	L0748: 10, L0750: 6, H0181: 5, H0265: 4, S0007: 4, H0545: 4, H0542: 4, H0543: 4, H0657: 3, H0662: 3, S0474: 3, H0135: 3, H0040: 3, H0087: 3, H0494: 3, S0142: 3, L0764: 3, S0126: 3, L0751: 3, L0754: 3, L0731: 3, L0757: 3, L0758: 3, H0638: 2, H0441: 2, H0618: 2, H0581: 2, S0049: 2, H0086: 2, L0471: 2, L0163: 2, H0428: 2, H0617: 2, H0124: 2, H0163: 2, H0100: 2, S0344: 2, S0002: 2, L0775: 2, H0670: 2, L0602: 2, L0743: 2, L0744: 2, L0747: 2, L0759: 2, S0434: 2, S0276: 2, H0506: 2, H0352: 2, H0556: 1, T0002: 1, S0402: 1, H0583: 1, H0656: 1, S0212: 1, S0110: 1, H0484: 1, H0255: 1, H0306: 1, S0418: 1, S0356: 1, S0358: 1, S0376: 1, S0360: 1, H0637: 1, S0132: 1, H0393: 1, L0717: 1, S0278: 1, H0549: 1, H0574: 1, L0623: 1, H0427: 1, L0021: 1, H0002: 1, H0123: 1, H0011: 1, H0012: 1, H0620: 1, H0015: 1, H0083: 1, H0188: 1, H0615: 1, H0039: 1, H0606: 1, H0551: 1, T0067: 1	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777

2431	HTTDT67	801964	2441	44 - 250	5038	Gln-5 to Gly-12; Gln-34 to Ile-46.	1, H0487: 1, H0412: 1, H0509: 1, H0654: 1, S0144: 1, H0529: 1, L0770: 1, L0769: 1, L0667: 1, L0772: 1, L0644: 1, L0773: 1, L0662: 1, L0767: 1, L0768: 1, L0766: 1, L0803: 1, L0657: 1, L0659: 1, L0518: 1, L0809: 1, L0544: 1, L0368: 1, L0790: 1, L0791: 1, L0666: 1, H0144: 1, S0374: 1, L0438: 1, H0520: 1, H0547: 1, H0658: 1, H0660: 1, H0672: 1, S0328: 1, H0539: 1, S0378: 1, S0380: 1, H0521: 1, S0406: 1, H0555: 1, H0478: 1, S3014: 1, S0027: 1, L0439: 1, L0780: 1, L0752: 1, L0755: 1, H0444: 1, H0445: 1, L0591: 1, L0362: 1, L0361: 1, H0668: 1, S0026: 1, S0242: 1, H0423: 1, H0422: 1 and S0456: 1.		
2432	HTTDE05	853403	2442	188 - 361	5039		H0584: 4, S0045: 4, H0543: 9 4, L0766: 3, L0803: 3, S0036: 2, H0940: 2, H0682: 2, H0696: 2, L0740: 2, L0777: 2, L0731: 2, L0758: 2, S0114: 1, H0228: 1, S0418: 1, H0586: 1, H0632: 1, H0706: 1, H0581: 1, H0050: 1, H0510: 1, S0002: 1, L0800: 1, L0768: 1, L0794: 1, L0805: 1, L0653: 1, L0655: 1, L0517: 1, L0809: 1, L0789: 1, L0663: 1, H0691: 1, L0748: 1, L0750: 1, H0445: 1 and H0506: 1.	3p13-q23	156845, 156845, 156845, 164500, 182280, 227646, 261510, 600151, 600165, 601154
2432	HTTDE05	853403	2442	188 - 361	5039		AR089: 6, AR316: 5, AR060: 5 L0740: 8, L0749: 8, S0040: 4, L0766: 4, L0779: 4, H0040: 3, L0752: 3, S0358: 2, L0471: 2, H0616: 2, L0763: 2, L0774: 2, L0659: 2, L0809: 2, H0144:		

2433	HTTEP11	562023	2443	236 - 259	5040			2, L0744: 2, L0748: 2, L0754: 2, L0750: 2, L0756: 2, L0777: 2, L0758: 2, H0686: 1, H0685: 1, H0583: 1, H0657: 1, H0662: 1, S0360: 1, S0046: 1, L0717: 1, H0351: 1, H0549: 1, H0586: 1, H0587: 1, H0013: 1, S0280: 1, H0156: 1, H0575: 1, H0318: 1, H0231: 1, H0046: 1, S6028: 1, H0266: 1, H0687: 1, S0003: 1, S0214: 1, H0644: 1, H0090: 1, H0641: 1, S0002: 1, S0426: 1, L0764: 1, L0662: 1, L0561: 1, L0386: 1, L0775: 1, L0654: 1, L0665: 1, L0438: 1, H0593: 1, H0365: 1, H0555: 1, L0439: 1, L0746: 1, L0747: 1, L0780: 1, L0755: 1, S0308: 1, L0591: 1, L0362: 1, L0366: 1, S0026: 1 and S0192: 1.		
2434	HTTES77	844417	2444	1133 - 1255	5041	Met-1 to Ser-7.		AR060: 4, AR316: 4, AR089: 2 L0766: 2, S0036: 1, H0040: 1, S0112: 1 and S0210: 1. L0748: 12, H0040: 7, L0779: 5, L0439: 3, L0749: 3, H0424: 2, L0758: 2, L0759: 2, H0642: 1, H0057: 1, H0373: 1, H0087: 1, S0038: 1, H0100: 1, L0763: 1, L0501: 1 and L0512: 1. H0040: 2 H0040: 4, L0439: 4, L0777: 3, L0758: 3, L0149: 2, L0805: 2, L0809: 2, L0731: 2, L0759: 2, H0586: 1, H0485: 1, H0052: 1, H0051: 1, S0388: 1, H0553: 1, L0770: 1, L0769: 1, L0794: 1, L0803: 1, L0790: 1, L0666: 1, L0779: 1 and S0192: 1.	Xq25	300123, 301201, 301845, 304340, 307150, 308240, 310490, 312000, 313850
2435	HTTFD29	853404	2445	52 - 138	5042					
2436	HTTFG15	600377	2446	30 - 113	5043					

1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813

[illegible]

2441	HTWCC10	747687	2451	244 - 306	5048				1, L0529: 1, L0787: 1, L0532: 1, L0665: 1, S0296: 1, H0520: 1, S0406: 1, L0747: 1, L0777: 1, L0752: 1, H0445: 1, S0192: 1, S0242: 1, S0194: 1, S0276: 1, H0422: 1 and S0384: 1, H0436: 1		
2442	HTWCE14	762839	2452	892 - 1053	5049	Pro-39 to Lys-54.			AR310: 4, AR289: 3, AR266: 3, AR263: 3, AR238: 3, AR265: 2, AR295: 2, AR247: 2, AR291: 2, AR184: 2, AR285: 2, AR286: 2, AR296: 2, AR277: 2, AR313: 2, AR267: 2, AR268: 2, AR096: 2, AR298: 2, AR312: 2, AR053: 2, AR052: 1, AR183: 1, AR270: 1, AR234: 1, AR039: 1, AR253: 1, AR290: 1, AR233: 1, AR227: 1, AR284: 1, AR292: 1, AR309: 1, AR269: 1, AR282: 1, AR240: 1, AR316: 1, AR182: 1, AR299: 1, AR294: 1, AR185: 1, L0769: 3, L0665: 3, H0254: 2, H0587: 2, L0761: 2, L0766: 2, S0044: 2, L0731: 2, T0002: 1, H0686: 1, H0650: 1, S0116: 1, H0733: 1, L0717: 1, H0549: 1, H0386: 1, T0010: 1, H0617: 1, H0135: 1, H0100: 1, H0022: 1, L0763: 1, L0770: 1, L5565: 1, L0646: 1, L0794: 1, L0650: 1, L0805: 1, L0655: 1, L0659: 1, L0783: 1, L0809: 1, L0663: 1, L0664: 1, H0689: 1, S0328: 1		

2443	HTWCT76	767758	2453	143 - 193				1, H0436: 1, L0439: 1, L0750: 1, L0758: 1, S0436: 1 and L0593: 1.	
2444	HTWDJ17	784037	2454	302 - 1258	5050 5051	Gly-25 to Gly-31, Glu-112 to Tyr-124, Leu-152 to Ile-160, Lys-167 to Thr-177.		H0436: 1 and H0595: 1, AR194: 22, AR281: 18, AR315: 17, AR244: 16, AR202: 16, AR238: 14, AR206: 14, AR263: 13, AR246: 13, AR039: 13, AR205: 12, AR280: 12, AR283: 12, AR241: 12, AR310: 12, AR243: 12, AR192: 11, AR314: 11, AR265: 11, AR282: 11, AR226: 10, AR232: 10, AR227: 10, AR204: 9, AR295: 9, AR033: 9, AR237: 9, AR284: 8, AR299: 8, AR213: 8, AR271: 8, AR266: 8, AR312: 8, AR289: 8, AR247: 8, AR198: 8, AR184: 8, AR285: 8, AR277: 8, AR251: 7, AR274: 7, AR229: 7, AR234: 7, AR286: 7, AR300: 7, AR055: 7, AR061: 7, AR292: 7, AR053: 7, AR177: 7, AR052: 7, AR309: 6, AR231: 6, AR313: 6, AR096: 6, AR296: 6, AR240: 6, AR270: 6, AR298: 6, AR104: 6, AR291: 6, AR233: 6, AR183: 6, AR294: 5, AR275: 5, AR269: 5, AR268: 5, AR182: 5, AR248: 5, AR267: 5, AR175: 5, AR273: 5,	

2445	HTWDM89	569787	2455	244 - 318	5052			AR293: 5, AR290: 4, AR185: 4, AR316: 4, AR258: 4, AR186: 4, AR256: 4, AR218: 4, AR259: 4, AR219: 3, AR253: 3, AR089: 3, AR249: 3, AR179: 3, AR060: 2 H0038: 2, H0510: 1, H0594: 1, H0090: 1, H0591: 1, H0616: 1, S0438: 1, L0761: 1, L0768: 1, L0766: 1, H0436: 1, L0748: 1, L0749: 1 and L0777: 1.		
2446	HTWEA05	844386	2456	198 - 299	5053			H0436: 1		
2447	HTWEG06	762856	2457	132 - 305	5054			H0436: 1		
2448	HTWEQ36	823369	2458	133 - 231	5055	Pro-24 to Glu-32.		L0596: 6, L0766: 5, L0747: 3, H0657: 2, H0013: 2, H0181: 2, H0674: 2, H0494: 2, L0763: 2, L0771: 2, L0662: 2, L0783: 2, L0664: 2, L0665: 2, L0438: 2, H0672: 2, L0743: 2, L0601: 2, S0298: 1, S0001: 1, H0661: 1, H0663: 1, S0356: 1, S0358: 1, S6026: 1, L0717: 1, S0278: 1, H0386: 1, L0586: 1, S0280: 1, L0021: 1, H0251: 1, H0545: 1, H0150: 1, H0266: 1, T0023: 1, H0628: 1, H0165: 1, H0087: 1, H0100: 1, H0334: 1, L0769: 1, L0638: 1, L0761: 1, L0667: 1, L0772: 1, L0372: 1, L0374: 1, L0764: 1, L0768: 1, L0774: 1, L0607: 1, L0659: 1, L0382: 1, L0647: 1, L0666: 1, L0663: 1, H0660: 1, H0539: 1, S0378: 1, H0436: 1, H0540: 1, S0027: 1, L0744: 1, L0439: 1, L0749: 1, L0777: 1, L0731: 1, L0758: 1, H0707: 1, L0591: 1, L0485:		

2449	HTWFA21	824551	2459	93 - 233	5056	Met-1 to Glu-6 Glu-30 to Asp-36.	1, L0593: 1, H0667: 1, H0423: 1 and H0422: 1. L0731: 2, L0157: 1, H0436: 1, L0779: 1, L0777: 1 and L0752: 1.		
2450	HTWFA88	596942	2460	293 - 643	5057		AR241: 10, AR313: 9, AR089: 6, AR312: 6, AR249: 5, AR248: 5, AR192: 5, AR282: 4, AR247: 4, AR271: 4, AR039: 4, AR185: 4, AR299: 4, AR096: 4, AR184: 4, AR273: 3, AR052: 3, AR186: 3, AR275: 3, AR204: 3, AR198: 3, AR251: 3, AR104: 3, AR310: 3, AR213: 3, AR300: 3, AR240: 3, AR053: 3, AR314: 2, AR266: 2, AR316: 2, AR309: 2, AR315: 2, AR182: 2, AR253: 2, AR277: 2, AR274: 2, AR265: 2, AR243: 2, AR060: 2, AR244: 2, AR294: 1, AR238: 1, AR205: 1, AR206: 1, AR296: 1 H0333: 1, H0036: 1 and H0436: 1.		
2451	HTWFM85	844677	2461	680 - 799	5058		L0483: 2, L0803: 2, H0436: 2, S0222: 1, H0596: 1, S0003: 1, H0030: 1, H0509: 1, S0150: 1, L4747: 1, L0768: 1, L0794: 1, L0518: 1, L0787: 1, H0144: 1, L0438: 1, H0547: 1, S0126: 1, H0660: 1, H0518: 1, L0740: 1, L0756: 1, L0759: 1 and H0422: 1.	10q24.1-q25.3	124020, 134637, 157640, 174900, 265700, 278000, 278000, 600095, 600512, 601969, 601969
2452	HTWFO43	858741	2462	193 - 285	5059	Lys-18 to Pro-23.	L0439: 10, L0662: 9, S0360: 1.		

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6, L0659; 6, L0764; 5, L0766; 5, L0775; 5, L0665; 5, L0748; 5, H0411; 3, S0003; 3, L0770; 3, L0666; 3, L0438; 3, S0126; 3, H0648; 3, H0521; 3, H0696; 3, L0755; 3, L0731; 3, H0422; 3, S0356; 2, H0586; 2, H0574; 2, H0545; 2, H0413; 2, H0560; 2, L0771; 2, L0774; 2, L0657; 2, L0663; 2, L0664; 2, S0374; 2, H0670; 2, L0754; 2, L0747; 2, L0749; 2, L0752; 2, L0758; 2, L0759; 2, H0445; 2, L0588; 2, L0362; 2, H0667; 2, H0170; 1, H0556; 1, T0002; 1, S0116; 1, S0354; 1, S0358; 1, S0376; 1, S0408; 1, S0410; 1, T0008; 1, S0132; 1, H0351; 1, H0369; 1, H0431; 1, H0442; 1, H0331; 1, H0486; 1, H0250; 1, H0075; 1, H0427; 1, H0156; 1, L0021; 1, L0022; 1, H0042; 1, H0263; 1, L0041; 1, H0024; 1, H0154; 1, T0010; 1, H0083; 1, H0179; 1, S0214; 1, H0039; 1, L0483; 1, H0553; 1, H0111; 1, H0169; 1, H0674; 1, H0598; 1, H0090; 1, H0040; 1, H0551; 1, H0494; 1, H0509; 1, S0472; 1, S0210; 1, S0002; 1, L0640; 1, L0642; 1, L0765; 1, L0648; 1, L0521; 1, L0767; 1, L0794; 1, L0389; 1, L0803; 1, L0378; 1, L0776; 1, L0655; 1, L0518; 1, H0144; 1, H0435; 1, H0660; 1, S0330; 1, S0378; 1, L0602; 1, H0710; 1, S0152; 1, S0404; 1, S0406; 1, H0436; 1, L0743; 1, L0740; 1, L0750; 1, S0260; 1, L0599; 1, H0668; 1, S0242; 1, L0697;
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2453	HTWL G39	853406	2463	200 - 298	5060		1 and H0506: 1; AR316: 12, AR089: 12, AR060: 12 L0748: 18, L0779: 9, L0740: 7, L0662: 6, L0732: 6, L0776: 4, L0439: 4, L0738: 4, L0771: 3, L0751: 3, H0497: 2, L0770: 2, L0769: 2, L0766: 2, L0774: 2, L0775: 2, L0659: 2, L0666: 2, L0747: 2, L0750: 2, L0777: 2, H0686: 1, S0116: 1, S0001: 1, S0376: 1, S0360: 1, H0393: 1, L0021: 1, H0421: 1, L0157: 1, L0471: 1, S0003: 1, H0040: 1, T0067: 1, L0435: 1, S0210: 1, L0502: 1, L0501: 1, L0638: 1, L0637: 1, L0767: 1, L0803: 1, L0651: 1, L0378: 1, L0809: 1, L0514: 1, L0663: 1, H0144: 1, S0374: 1, L0438: 1, H0576: 1, L0743: 1, L0745: 1, L0731: 1, H0444: 1, L0397: 1, L0605: 1, L0485: 1, L0366: 1 and H0542: 1	8p21	152760, 180100, 185430, 602629
2454	HTXAA20	821342	2464	30 - 182	5061		L0803: 9, L0740: 9, L0769: 6, L0794: 5, L0805: 5, L0439: 5, L0518: 4, H0059: 3, L0809: 3, L0757: 3, H0550: 2, S0222: 2, H0497: 2, H0618: 2, H0620: 2, S0051: 2, L0638: 2, L0747: 2, L0750: 2, L0596: 2, L0605: 2, H0265: 1, H0583: 1, H0381: 1, S0282: 1, H0254: 1, H0255: 1, S0418: 1, S0360: 1, S0007: 1, H0486: 1, H0156: 1, H0052: 1, H0263: 1, H0545: 1, H0457: 1, H0150: 1, H0050: 1, T0010: 1, H0083: 1, H0286: 1, H0428: 1, H0418: 1, H0673: 1, S0036: 1, H0551: 1, H0264: 1, H0494:	10	

2455	HTXAD75	745410	2465	49 - 174	5062	Ala-25 to Asn-32.	1, H0130: 1, L0770: 1, L0761: 1, L0646: 1, L0800: 1, L0662: 1, L0768: 1, L0774: 1, L0775: 1, L0776: 1, L0807: 1, L0659: 1, L0787: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0520: 1, H0682: 1, H0521: 1, H0478: 1, L0751: 1, L0755: 1, L0731: 1, L0759: 1, L0592: 1, L0608: 1, L0366: 1 and S0192: 1, L0731: 12, L0659: 11, L0803: 9, L0439: 9, L0756: 7, L0666: 5, L0747: 5, L0646: 4, L0375: 4, L0438: 4, L0599: 4, L0601: 4, L0600: 4, L0372: 3, L0662: 3, H0670: 3, H0660: 3, L0752: 3, L0757: 3, H0265: 2, S0212: 2, S0045: 2, L0717: 2, H0622: 2, H0638: 2, H0551: 2, H0412: 2, L0770: 2, L0637: 2, L0804: 2, L0378: 2, L0654: 2, L0655: 2, L0517: 2, H0519: 2, H0689: 2, H0672: 2, H0539: 2, L0602: 2, L0740: 2, L0754: 2, L0758: 2, L0590: 2, S0116: 1, S0001: 1, S0442: 1, S0444: 1, S0360: 1, S0132: 1, H0438: 1, L0021: 1, H0002: 1, S0474: 1, H0581: 1, L0040: 1, H0327: 1, L0041: 1, H0050: 1, H0275: 1, H0375: 1, S0003: 1, S0214: 1, H0039: 1, H0553: 1, H0644: 1, H0316: 1, H0598: 1, H0477: 1, S0386: 1, H0494: 1, H0501: 1, H0646: 1, H0695: 1, L0520: 1, L0640: 1, L0638: 1, L0796: 1, L0772: 1, L0373: 1, L0764: 1, L0648: 1, L0794: 1, L0649: 1, L0774: 1, L0651: 1, L0823: 1, L0805: 1, L0653: 1, L0657: 1,	1q41-q42	106150, 106150, 145260, 173870, 173870, 276901, 600332, 600759, 600996, 601744, 601975
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2456	HTXBUR2	656935	2466	35 - 115	5063				L0519: 1, L0544: 1, L0789: 1, L0663: 1, L0664: 1, S0052: 1, H0684: 1, H0435: 1, H0658: 1, H0648: 1, S0378: 1, H0696: 1, H0704: 1, H0436: 1, L0777: 1, L0755: 1, L0588: 1, L0605: 1, S0026: 1, S0192: 1, S0194: 1, H0542: 1, S0412: 1 and H0352: 1.
2457	HTXBS38	604984	2467	261 - 311	5064				H0265: 1 and H0356: 1, L0754: 8, L0731: 4, L0663: 3, H0659: 3, H0670: 3, L0750: 3, L0779: 3, H0662: 2, S0360: 2, S0414: 2, L0763: 2, L0764: 2, L0662: 2, L0766: 2, L0803: 2, L0774: 2, L0528: 2, L0666: 2, S0328: 2, S0330: 2, L0777: 2, L0752: 2, H0423: 2, H0624: 1, H0265: 1, H0556: 1, H0657: 1, S0354: 1, S0358: 1, S0408: 1, H0329: 1, H0411: 1, S0222: 1, L0586: 1, L0105: 1, H0581: 1, H0081: 1, H0057: 1, H0014: 1, S0318: 1, H0428: 1, H0412: 1, H0625: 1, S0438: 1, S0422: 1, L0520: 1, L0769: 1, L0637: 1, L0646: 1, L0767: 1, L0649: 1, L0775: 1, L0651: 1, L0776: 1, L0655: 1, L0559: 1, L0659: 1, L0518: 1, L0532: 1, S0374: 1, L0438: 1, H0547: 1, H0519: 1, H0690: 1, H0648: 1, H0710: 1, L0439: 1, L0747: 1, L0758: 1, L0759: 1, S0434: 1, L0605: 1, L0599: 1, S0026: 1, S0192: 1 and H0352: 1.
2458	HTXBSUR8	604985	2468	159 - 263	5065	11e-17 to Ser-25.			H0265: 1.
2459	HTXCT27	892364	2469	153 - 200	5066				L0794: 12, H0038: 11, L0659: 9, L0596: 9, H0253: 8, L0758: 8, H0265: 7, H0536: 7.

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	H0318: 6, H0547: 6, H0543: 3, H0657: 4, L0769: 4, L0591: 4, S0420: 3, H0617: 3, H0560: 3, L0763: 3, L0766: 3, L0664: 3, L0438: 3, H0519: 3, H0435: 3, L0748: 3, L0777: 3, L0593: 3, H0542: 3, H0423: 3, S0418: 2, S0356: 2, S0354: 2, S0360: 2, H0619: 2, H0618: 2, H0090: 2, S0440: 2, L0770: 2, L0764: 2, L0649: 2, L0803: 2, L0805: 2, L0654: 2, L0776: 2, L0655: 2, L0666: 2, L0663: 2, L0665: 2, H0144: 2, H0593: 2, L0602: 2, S0152: 2, H0321: 2, L0439: 2, L0740: 2, L0751: 2, H0136: 2, H0686: 1, H0685: 1, S0040: 1, H0716: 1, T0049: 1, H0583: 1, H0656: 1, H0341: 1, H0484: 1, H0483: 1, H0438: 1, S0376: 1, S0444: 1, S0408: 1, H0580: 1, H0393: 1, L0717: 1, H0351: 1, H0386: 1, H0333: 1, H0643: 1, L0623: 1, T0040: 1, T0060: 1, L0021: 1, H0052: 1, H0041: 1, H0009: 1, L0471: 1, H0620: 1, H0051: 1, S0250: 1, T0006: 1, H0424: 1, H0553: 1, S0036: 1, H0634: 1, H0616: 1, H0264: 1, H0412: 1, H0059: 1, S0038: 1, H0494: 1, H0561: 1, S0450: 1, H0714: 1, H0649: 1, S0002: 1, H0529: 1, L0506: 1, L0637: 1, L0772: 1, L0800: 1, L0648: 1, L0662: 1, L0804: 1, L0653: 1, L0559: 1, L0809: 1, L0789: 1, L0793: 1, H0702: 1, S0126: 1, S0270: 1, S0404: 1, S0406: 1, H0436: 1, L0749: 1, L0731: 1, L0757: 1, L0759: 1, S0031: 1,
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							H0707: 1, L0587: 1, L0588: 1, L0601: 1, H0668: 1, H0667: 1, S0194: 1, S0424: 1 and H0506: 1		
2460	HTXCU30	839846	2470	221 - 265	5067		H0265: 1, H0012: 1 and L0518: 1		
2461	HTXCV44	740773	2471	181 - 375	5068	Leu-46 to Gly-54.	AR089: 10, AR316: 8, AR060: 7 H0265: 2, H0556: 2, S0049: 1, S0428: 1 and L0589: 1.		
2462	HTXDD21	739510	2472	189 - 317	5069	Lys-37 to His-42.	AR060: 5, AR316: 4, AR089: 3 H0265: 2, L0589: 2, L0521: 1, L0523: 1 and H0423: 1.		
2463	HTXDD75	562780	2473	253 - 390	5070		AR089: 14, AR316: 10, AR060: 7 H0265: 1, H0331: 1, H0100: 1 and H0436: 1.		
2464	HTXDD85	590015	2474	210 - 293	5071		L0748: 2, L0750: 2, L0758: 2, H0265: 1, L0655: 1, L0518: 1, L0519: 1, H0696: 1, L0779: 1 and S0026: 1.		
2465	HTXDK09	754079	2475	118 - 213	5072		L0758: 3, L0765: 2, H0265: 1, H0295: 1, H0632: 1, H0012: 1, L0142: 1, H0163: 1, L0766: 1, L0788: 1, L0665: 1, H0670: 1, H0672: 1 and L0731: 1.		
2466	HTXDD17	843388	2476	149 - 319	5073	Ser-48 to Thr-56.	AR089: 5, AR316: 5, AR060: 5 L0749: 2, L0601: 2, H0265: 1, H0123: 1 and H0024: 1.		
2467	HTXDD72	778083	2477	267 - 479	5074	Ala-43 to Thr-52.	AR060: 8 L0777: 11, H0618: 7, L0438: 6, H0144: 5, L0758: 5, H0059: 4, L0601: 4, H0556: 3, H0253: 3, H0052: 3, H0620: 3, H0617: 3, L0764: 3, L0768: 3, L0744: 3, L0747: 3, H0265: 2, H0341: 1.	16p11.2-p11.1	147781, 172471, 182381

2468	HTXDU08	827578	2478	168 - 272	5075	<p>2, S0410: 2, S0046: 2, S0222: 2, H0013: 2, H0069: 2, S0049: 2, H0150: 2, H0087: 2, L0351: 2, L0771: 2, L0766: 2, L0665: 2, H0547: 2, H0659: 2, L0748: 2, L0439: 2, L0754: 2, L0749: 2, H0542: 2, S0040: 1, H0717: 1, H0716: 1, S0114: 1, T0049: 1, H0583: 1, H0657: 1, H0656: 1, H0381: 1, H0663: 1, S0258: 1, S0007: 1, S0278: 1, H0261: 1, H0550: 1, H0392: 1, H0486: 1, T0114: 1, S0010: 1, H0581: 1, H0374: 1, H0327: 1, H0545: 1, H0457: 1, H0012: 1, H0024: 1, H0015: 1, H0510: 1, H0594: 1, H0188: 1, H0292: 1, H0286: 1, H0622: 1, H0181: 1, H0135: 1, H0040: 1, H0063: 1, H0100: 1, T0041: 1, H0361: 1, S0440: 1, H0509: 1, H0529: 1, L0640: 1, L0770: 1, L0769: 1, L5566: 1, L0773: 1, L0662: 1, L0363: 1, L0774: 1, L0775: 1, L0806: 1, L0559: 1, L0783: 1, L0383: 1, H0698: 1, S0374: 1, H0520: 1, H0519: 1, S0292: 1, S0126: 1, H0682: 1, S0380: 1, H0696: 1, S0027: 1, L0740: 1, L0731: 1, H0445: 1, L0605: 1, L0592: 1 and H0543: 1. L0439: 1, L0750: 5, L0766: 4, L0803: 4, H0519: 4, L0752: 4, H0521: 3, L0747: 3, H0265: 2, H0638: 2, H0046: 2, L0805: 2, L0791: 2, L0438: 2, L0743: 2, L0748: 2, L0780: 2, L0731: 2, H0716: 1, L0002: 1, H0341: 1, S0212: 1, H0305: 1, H0589: 1, S0444: 1, T0039: 1, H0427:</p>
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2469	HTXDZ68	824545	2479	323 - 406	5076		<p>1, T0110: 1, H0545: 1, H0375: 1, H0124: 1, H0135: 1, H00904: 1, H0616: 1, H0202: 1, T0041: 1, S0438: 1, H0647: 1, S0344: 1, H0529: 1, L0371: 1, L0764: 1, L0804: 1, L0659: 1, L0783: 1, L0809: 1, L0663: 1, S0126: 1, H0648: 1, H0672: 1, S0152: 1, S0028: 1, L0749: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, S0434: 1, H0506: 1 and H0008: 1.</p> <p>L0766: 2, H0265: 1, H0556: 1, H0575: 1, S0027: 1 and L0608: 1.</p>	
2470	HTXEN33	589556	2480	151 - 282	5077		<p>H0556: 20, H0265: 8, H0638: 1, H0660: 1, H0521: 1 and L0749: 1.</p>	6p25-p23 125264, 134570, 600511, 601090, 601556, 602028
2471	HTXES13	651367	2481	179 - 424	5078	Avg-64 to Lys-75.	<p>L0775: 8, L0783: 7, S0126: 5, H0657: 4, H0545: 4, L0764: 4, L0757: 4, L0758: 4, L0770: 3, L0769: 3, L0768: 3, L0766: 3, L0774: 3, L0776: 3, S3014: 3, L0749: 3, L0755: 3, L0731: 3, L0759: 3, H0265: 2, S0360: 2, S0410: 2, S0007: 2, H0052: 2, H0086: 2, H0081: 2, H0012: 2, H0494: 2, H0509: 2, L0520: 2, L0744: 2, L0777: 2, L0581: 2, H0170: 1, H0220: 1, H0294: 1, S0134: 1, H0483: 1, H0661: 1, H0125: 1, S0376: 1, H0729: 1, S0045: 1, H0411: 1, H0550: 1, H0586: 1, L0622: 1, T0060: 1, H0253: 1, H0196: 1, H0085: 1, H0544: 1, H0178: 1, H0172: 1, H0028: 1, H0428: 1, H0033: 1, H0424: 1, H0213: 1, H0031: 1, S0366: 1, H0598: 1, H0135: 1, H0087: 1, H0413: 1, H0625: 1.</p>	

2472	HTXED86	899517	2482	132 - 179	5079			1, S0438: 1, S0440: 1, H0641: 1, H0633: 1, S0422: 1, L3904: 1, L0773: 1, L0655: 1, L0629: 1, L0807: 1, L0809: 1, L0543: 1, L0791: 1, H0689: 1, H0710: 1, H0521: 1, H0631: 1, L0742: 1, L0750: 1, L0756: 1, L0752: 1, S0434: 1, H0543: 1, H0293: 1 and H0352: 1.	
2473	HTXGK12	896690	2483	102 - 200	5080			AR060: 3, AR316: 2, AR089: 2, L0748: 10, L0439: 10, L0777: 7, H0052: 5, L0769: 5, L0809: 5, H0556: 4, H0265: 3, L0770: 3, L0803: 3, S0206: 3, L0731: 3, H0393: 2, L0435: 2, L0764: 2, L0787: 2, L0665: 2, L0438: 2, H0547: 2, L0747: 2, L0750: 2, L0604: 2, L0601: 2, S0218: 1, L0426: 1, S0116: 1, H0341: 1, S0212: 1, H0484: 1, S0360: 1, H0329: 1, H0370: 1, H0486: 1, H0013: 1, H0427: 1, H0581: 1, H0178: 1, H0123: 1, H0030: 1, H0553: 1, L0055: 1, H0494: 1, S0440: 1, S0002: 1, L0369: 1, L0763: 1, L0639: 1, L0773: 1, L0648: 1, L0768: 1, L0794: 1, L0375: 1, L0805: 1, L0776: 1, L0666: 1, L0663: 1, L0664: 1, H0593: 1, H0659: 1, H0660: 1, H0672: 1, S0378: 1, H0518: 1, H0696: 1, S0146: 1, L0756: 1, L0757: 1, L0759: 1, H0707: 1, H0667: 1 and H0423: 1.	
2473	HTXGK12	896690	2483	102 - 200	5080			AR244: 6, AR266: 5, AR060: 5, AR186: 4, AR206: 4, AR243: 4, AR055: 4, AR273: 4,	

							AR052: 4, AR194: 4, AR205: 4, AR061: 3, AR298: 3, AR269: 3, AR312: 3, AR053: 3, AR182: 3, AR253: 3, AR184: 3, AR291: 3, AR274: 3, AR202: 3, AR246: 3, AR267: 3, AR309: 3, AR204: 3, AR270: 3, AR213: 3, AR296: 3, AR316: 3, AR313: 3, AR299: 3, AR033: 3, AR247: 3, AR096: 3, AR238: 3, AR284: 3, AR286: 2, AR290: 2, AR175: 2, AR183: 2, AR289: 2, AR293: 2, AR295: 2, AR198: 2, AR282: 2, AR277: 2, AR185: 2, AR283: 2, AR300: 2, AR268: 2, AR294: 2, AR089: 2, AR231: 2, AR285: 2, AR292: 2, AR219: 2, AR233: 2, AR226: 2, AR237: 2, AR259: 2, AR039: 2, AR256: 1, AR104: 1, AR240: 1, AR177: 1, AR234: 1, AR227: 1, H0013: 3, H0624: 2, H0556: 2, H0038: 2, H0265: 1, T0049: 1, H0270: 1, H0563: 1, H0024: 1, H0615: 1, S0368: 1, H0090: 1, T0042: 1, L0800: 1, L0662: 1, L0659: 1, L0790: 1, L0565: 1, S0330: 1, L0779: 1, L0595: 1 and S0424: 1.
2474	HTXGL32	732135	2484	113 - 211	5081		H0265: 1 and H0556: 1.
2475	HTXID08	566885	2485	192 - 206	5082		AR060: 9, AR316: 9,

2481	HTXJN54	637729	2491	269 - 298	5088	Met-1 to Gly-9.	<p>1, H0522: 1, H0187: 1, L0745: 1, L0779: 1, L0777: 1, L0757: 1, L0758: 1, L0759: 1, L0483: 1, S0196: 1 and H0542: 1.</p> <p>AR060: 3, AR316: 2, AR089: 2</p> <p>H0644: 2, L0756: 2, L0752: 2, H0556: 1, H0318: 1, H0421: 1, L0803: 1, L0804: 1, L0651: 1, L0805: 1, H0521: 1, L0777: 1 and S0456: 1.</p>	12q24.1	12q200, 147440, 160781, 181405, 261600, 261600, 601406, 601620, 601621
2482	HTXJW06	789201	2492	635 - 1024	5089	Gly-80 to Gly-88.	<p>H0536: 4, H0253: 4, H0620: 4, L0769: 3, L0764: 3, L0776: 3, L0809: 3, L0731: 3, S0212: 2, H0052: 2, L0483: 2, H0124: 2, H0087: 2, L0770: 2, L0662: 2, L0766: 2, L0657: 2, L0665: 2, L0565: 2, S0126: 2, S0328: 2, L0747: 2, L0758: 2, L0599: 2, L0603: 2, S0470: 1, S0114: 1, S0218: 1, H0657: 1, S0116: 1, H0484: 1, H0638: 1, S0420: 1, S0045: 1, S0046: 1, S0278: 1, H0549: 1, H0550: 1, T0114: 1, H0250: 1, H0156: 1, L0738: 1, H0327: 1, H0544: 1, H0546: 1, H0009: 1, L0471: 1, H0083: 1, H0355: 1, H0416: 1, H0428: 1, H0604: 1, H0181: 1, H0617: 1, H0032: 1, S0364: 1, H0063: 1, H0264: 1, H0100: 1, H0494: 1, H0360: 1, L0665: 1, H0132: 1, H0131: 1, S0150: 1, H0647: 1, L0638: 1, L0772: 1, L0387: 1, L0775: 1, L0658: 1, L0541: 1, S0052: 1, H0547: 1, H0672: 1, H0539: 1, S0406: 1, H0478: 1, H0732: 1, S0032: 1, L0439: 1, L0740: 1, L0779: 1, L0755: 1, L0757: 1, L0759: 1, H0343: 1.</p>		

2483	HTXKB57	844329	2493	867 - 1052	5090	Phe-11 to Gly-16, Pro-33 to Ser-42.	1. S0434: 1, S0436: 1, L0581: 1. L0595: 1, H0665: 1, H0543: 1. H0423: 1 and S0446: 1.	17p13.2	
							AR205: 21, AR245: 12, AR163: 11, AR162: 11, AR161: 11, AR165: 11, AR164: 11, AR166: 10, AR232: 9, AR192: 9, AR089: 9, AR039: 9, AR252: 8, AR207: 8, AR264: 8, AR195: 8, AR204: 8, AR272: 7, AR246: 7, AR198: 7, AR243: 6, AR247: 6, AR197: 6, AR196: 6, AR253: 6, AR193: 6, AR240: 6, AR188: 6, AR313: 6, AR254: 6, AR060: 5, AR311: 5, AR271: 5, AR309: 5, AR053: 5, AR299: 5, AR176: 5, AR263: 5, AR178: 5, AR312: 5, AR170: 5, AR250: 5, AR291: 5, AR191: 5, AR308: 5, AR213: 5, AR316: 5, AR199: 5, AR177: 5, AR180: 5, AR200: 4, AR242: 4, AR212: 4, AR185: 4, AR274: 4, AR261: 4, AR096: 4, AR231: 4, AR203: 4, AR181: 4, AR201: 4, AR174: 4, AR269: 4, AR104: 4, AR055: 4, AR189: 4, AR275: 4, AR237: 4, AR216: 4, AR300: 3, AR179: 3, AR288: 3, AR183: 3, AR234: 3,		

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2484	HTXKH22	562781	2494	350 - 388	5091			1, L0483: 1, H0644: 1, H0673: 1, H0551: 1, H0488: 1, H0412: 1, H0623: 1, T0042: 1, H0641: 1, L0770: 1, L0769: 1, L0372: 1, L0648: 1, L0768: 1, L0794: 1, L0806: 1, L0805: 1, L0776: 1, L0657: 1, L0367: 1, L0793: 1, L0666: 1, L0665: 1, L0438: 1, H0435: 1, H0658: 1, S0332: 1, S0027: 1, L0754: 1, L0755: 1, L0758: 1, S0434: 1, L0601: 1, S0011: 1 and S0192: 1. AR060: 3, AR316: 2, AR089: 1 L0439: 2 and H0556: 1.		
2485	HTXKH40	600378	2495	153 - 293	5092	Leu-19 to Arg-25.	1q21	104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 602491		

2486	HTXKK76	858755	2496	54 - 212	5093				1, H0580: 1, S0132: 1, H0550: 1, H0431: 1, H0592: 1, H0587: 1, H0333: 1, H0270: 1, H0013: 1, H0599: 1, T0082: 1, H0318: 1, H0251: 1, H0309: 1, T0110: 1, H0545: 1, H0041: 1, H0620: 1, H0024: 1, H0057: 1, H0014: 1, S0051: 1, H0083: 1, S0024: 1, H0355: 1, H0266: 1, H0271: 1, H0188: 1, S0250: 1, H0328: 1, H0615: 1, L0483: 1, H0030: 1, H0031: 1, H0111: 1, H0032: 1, H0383: 1, H0674: 1, H0211: 1, L0456: 1, H0068: 1, H0135: 1, H0040: 1, H0634: 1, H0551: 1, H0412: 1, S0450: 1, H0647: 1, H0646: 1, S0144: 1, S0142: 1, S0344: 1, S0210: 1, L0761: 1, L0372: 1, L0764: 1, L0767: 1, L0768: 1, L0649: 1, L0375: 1, L0651: 1, L0784: 1, L0654: 1, L0657: 1, L0515: 1, L0658: 1, L0383: 1, L0809: 1, L0663: 1, S0006: 1, H0520: 1, H0593: 1, H0682: 1, H0684: 1, H0658: 1, H0670: 1, H0696: 1, S0027: 1, L0754: 1, L0747: 1, L0750: 1, L0591: 1, L0595: 1, L0603: 1, S0106: 1, H0668: 1, H0542: 1 and H0423: 1.
2486	HTXKK76	858755	2496	54 - 212	5093				AR089: 4, AR316: 4, AR060: 3 H0556: 1
2487	HTXKKL53	783141	2497	1245 - 1385	5094	Met-1 to Tyr-6, Thr-38 to Ala-44.			L0747: 3, H0328: 2, L0766: 2, L0655: 2, L0745: 2, L0608: 2, H0556: 1, S0116: 1, H0384: 1, S0360: 1, S0408: 1, H0637: 1, H0619: 1, H0492: 1, H0156: 1, H0421: 1, S0051: 1, H0083: 1, H0510: 1, H0266: 1, H0031: 1

2488	HTXKS11	688063	2498	133 - 249	5095				1. H0634: 1. H0560: 1. S0440: 1. H0132: 1. H0695: 1. L0769: 1. L0662: 1. L0776: 1. H0144: 1. H0690: 1. H0658: 1. H0521: 1. H0522: 1. L0746: 1. L0750: 1. L0759: 1. L0480: 1. L0589: 1. H0543: 1. and H0422: 1.		
2489	HTXKS27	877820	2499	286 - 453	5096		Gln-20 to Arg-25.		L0766: 7. L0662: 4. L0789: 4. L0748: 4. L0749: 4. L0769: 3. L0776: 3. L0438: 3. H0521: 3. H0556: 2. S0360: 2. L0717: 2. L0794: 2. L0666: 2. L0663: 2. H0547: 2. S0028: 2. L0754: 2. H0422: 2. T0049: 1. H0657: 1. H0411: 1. H0586: 1. H0013: 1. H0098: 1. H0575: 1. L0471: 1. L0163: 1. L0455: 1. S0366: 1. S0036: 1. H0038: 1. H0551: 1. L0763: 1. L0800: 1. L0387: 1. L0803: 1. L0805: 1. L0518: 1. L0809: 1. H0660: 1. H0696: 1. H0555: 1. L0612: 1. S0032: 1. L0742: 1. L0740: 1. L0747: 1. L0750: 1. L0756: 1. L0777: 1. L0757: 1. H0423: 1 and L0600: 1.	11p11.2	133701, 168500, 171650, 176930, 176930, 600623, 600811, 600958
2490	HTXLC05	843523	2500	295 - 537	5097		Thr-39 to Arg-47.		AR060: 7. AR316: 5. AR089: 2. S0410: 2. H0556: 1. H0024: 1. L0803: 1. L0806: 1 and L0790: 1.		
2491	HTXLC45	834930	2501	359 - 511	5098				AR060: 7. AR316: 6. AR089: 3. H0556: 1.	2p14-q22.3	182601, 203800, 278300, 601071, 602134
2492	HTXLT36	843477	2502	189 - 230	5099				AR060: 7. AR316: 7. AR089: 7. H0250: 2. H0477: 2. L0804: 2. L0791: 2. H0660: 2. S0406: 2.	4p16	225500, 600593, 602363

2493	HTXLY94	844165	2503	893 - 1000	5100	Pro-26 to Ser-33.	2, L0758: 2, H0171: 1, H0556: 1, T0049: 1, L0760: 1, S0356: 1, H0587: 1, H0013: 1, H0635: 1, H0081: 1, S0003: 1, H0135: 1, H0090: 1, T0042: 1, L0065: 1, L0520: 1, L0766: 1, L0655: 1, L0665: 1, H0539: 1, L0747: 1, L0749: 1, L0757: 1, L0759: 1, H0423: 1, H0422: 1 and H0352: 1. L0439: 16, L0794: 7, L0438: 7, L0779: 5, L0745: 4, L0777: 4, L0770: 3, L0769: 3, H0144: 3, L0747: 3, H0556: 2, L0415: 2, H0150: 2, L0519: 2, L0666: 2, L0755: 2, L0589: 2, L0581: 2, H0171: 1, L0443: 1, S0282: 1, S0358: 1, S0360: 1, S0222: 1, H0370: 1, H0331: 1, T0109: 1, H0244: 1, H0156: 1, S0010: 1, H0581: 1, L0738: 1, H0009: 1, H0024: 1, H0373: 1, S0388: 1, T0010: 1, H0510: 1, L0455: 1, L0456: 1, H0163: 1, H0494: 1, S0002: 1, L0761: 1, L0764: 1, L0363: 1, L0803: 1, L0774: 1, L0806: 1, L0653: 1, L0659: 1, L0809: 1, L0791: 1, L0664: 1, H0520: 1, H0547: 1, H0658: 1, S0328: 1, H0436: 1, L0740: 1, L0731: 1, L0757: 1, L0758: 1, L0592: 1, H0543: 1 and S0424: 1.		
2494	HTXNV66	840597	2504	674 - 949	5101	Ser-16 to Pro-21.	AR213: 22, AR295: 16, AR284: 14, AR052: 13, AR296: 13, AR285: 12, AR291: 11, AR053: 10, AR313: 10, AR089: 9, AR298: 9, AR292: 9, AR289: 8, AR286: 7,	16p12	108730, 147781, 172471, 186580, 266600, 600760, 600760, 600761, 600761, 602066

005003-051201

AR268: 7, AR186: 7, AR269: 7, AR316: 7, AR270: 7, AR060: 7, AR274: 7, AR249: 7, AR248: 7, AR267: 6, AR309: 6, AR240: 6, AR266: 6, AR182: 6, AR096: 6, AR275: 6, AR253: 6, AR312: 5, AR294: 5, AR293: 5, AR263: 5, AR310: 5, AR185: 5, AR246: 5, AR290: 5, AR271: 5, AR184: 4, AR282: 4, AR229: 4, AR055: 4, AR183: 4, AR299: 4, AR273: 4, AR300: 4, AR033: 4, AR175: 4, AR247: 4, AR277: 3, AR251: 3, AR238: 3, AR231: 3, AR104: 3, AR256: 3, AR234: 3, AR226: 3, AR283: 3, AR061: 3, AR258: 2, AR198: 2, AR315: 2, AR206: 2, AR233: 2, AR205: 2, AR237: 2, AR259: 2, AR177: 2, AR232: 2, AR179: 2, AR314: 2, AR280: 1, AR039: 1, AR265: 1, L0766: 15, L0745: 7, L0809: 6, L0747: 6, L0794: 5, L0749: 5, H0580: 4, H0135: 4, L0439: 4, L0731: 4, H0556: 3, H0650: 3, H0656: 3, H0255: 3, H0644: 3, L0763: 3, L0774: 3, L0655: 3, L0666: 3, H0144: 3, H0521: 3, L0750: 3, L0779: 3, L0759: 3, L0599: 3, H0587: 2, H0575:
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2495	HTXOL30	838462	2505	272 - 316	5102				2, H0457: 2, H0594: 2, L0455: 2, L0803: 2, L0783: 2, L0438: 2, H0670: 2, L0758: 2, T0002: 1, S0116: 1, S0212: 1, H0125: 1, S0420: 1, S0376: 1, H0619: 1, H0645: 1, S0222: 1, H0013: 1, L0021: 1, H0599: 1, S0010: 1, H0421: 1, T0110: 1, H0150: 1, H0009: 1, H0050: 1, H0012: 1, H0252: 1, L0456: 1, H0087: 1, T0067: 1, H0264: 1, H0623: 1, L0065: 1, H0509: 1, S0472: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0768: 1, L0387: 1, L0649: 1, L0804: 1, L0775: 1, L0651: 1, L0636: 1, L0517: 1, L0788: 1, L0789: 1, L0793: 1, L0663: 1, S0428: 1, S0126: 1, H0689: 1, H0435: 1, S0380: 1, H0518: 1, H0436: 1, S3014: 1, S0028: 1, L0777: 1, L0752: 1, L0589: 1, L0593: 1, S0026: 1, H0677: 1 and H0506: 1.
2496	HTXOW27	839280	2506	1070 - 1150	5103			18q12	114400, 176300, 176300, 176300, 176300, 257220, 257220

2497	HTXPD86	834772	2507	900 - 1043	5104	Gly-30 to Thr-44.	<p> 1, H0333: 1, H0486: 1, T0060: 1, H0069: 1, H0036: 1, H0590: 1, H0618: 1, S0346: 1, L0738: 1, H0046: 1, H0009: 1, H0373: 1, T0010: 1, H0039: 1, T0006: 1, H0031: 1, H0090: 1, H0040: 1, H0634: 1, H0063: 1, H0264: 1, H0413: 1, H0560: 1, H0646: 1, H0529: 1, L0770: 1, L0769: 1, L3904: 1, L0772: 1, L0644: 1, L0771: 1, L0650: 1, L0655: 1, L0809: 1, L0647: 1, L0368: 1, L0787: 1, L0789: 1, L0790: 1, L0793: 1, L0532: 1, L0663: 1, H0144: 1, S0310: 1, H0539: 1, S0152: 1, H0521: 1, H0696: 1, H0555: 1, H0576: 1, L0754: 1, L0747: 1, L0750: 1, L0777: 1, L0759: 1, L0608: 1, L0595: 1, L0366: 1, H0667: 1, H0136: 1, H0542: 1, H0423: 1 and H0506: 1. </p>		
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2498	HTXPT57	897834	2508	93 - 371	5105		T0010: 1, H0083: 1, H0375: 1, H0428: 1, T0006: 1, H0628: 1, H0617: 1, H0068: 1, S0366: 1, H0598: 1, H0634: 1, H0616: 1, H0264: 1, H0059: 1, S0038: 1, T0042: 1, H0207: 1, H0633: 1, L0763: 1, L0761: 1, L0667: 1, L0800: 1, L0764: 1, L0662: 1, L0767: 1, L0650: 1, L0775: 1, L0375: 1, L0651: 1, L0805: 1, L0633: 1, L0807: 1, L0512: 1, L0787: 1, L0790: 1, L0664: 1, L0665: 1, H0144: 1, H0697: 1, L0665: 1, H0659: 1, H0559: 1, S0044: 1, S014: 1, L0750: 1, L0756: 1, L0779: 1, S0434: 1, L0593: 1, H0423: 1 and S0424: 1.
2499	HTYSI88	598718	2509	44 - 151	5106		AR089: 38, AR316: 28, AR060: 19, H0556: 1, H0632: 1, L0659: 1 and L0753: 1.
2500	HUDBE20	637731	2510	202 - 321	5107		H0156: 1 and H0116: 1.
2501	HUDBK47	669688	2511	147 - 266	5108		S0042: 1
2502	HUFAB57	587275	2512	232 - 348	5109	Lys-21 to Ser-26.	H0318: 1 and S0042: 1. AR089: 11, AR316: 9, AR060: 6 L0499: 7, L0511: 4, L0504: 3, L0508: 2, L0509: 2, S0360: 1, H0586: 1, H0333: 1, L0471: 1, H0135: 1, H0488: 1, H0633: 1, L0505: 1, L0507: 1, L0766: 1, L0657: 1, L0493: 1, L0510: 1, L0519: 1, L2245: 1, H0648: 1, L0750: 1, L0779: 1, L0599: 1 and H0506: 1.
2503	HUFAL17	741072	2513	54 - 152	5110		H0506: 1
2504	HUFA092	608175	2514	304 - 525	5111		L0773: 2, H0671: 1, H0176: 1, S0356: 1, S0358: 1, H0039: 1.

2505	HUFA094	668267	2515	229 - 270	5112	<p>1, H0622: 1, H0616: 1, L0764: 1, L0659: 1, L0783: 1, L0809: 1, H0539: 1, S0406: 1, L0601: 1 and H0506: 1.</p> <p>AR089: 17, AR316: 15, AR060: 14</p> <p>S0358: 8, H0545: 8, L0755: 7, L0740: 6, L0769: 5, L0766: 5, H0494: 4, L0777: 4, L0757: 4, H0294: 3, H0318: 3, H0424: 3, H0617: 3, L0768: 3, H0696: 3, L0742: 3, L0601: 3, H0295: 2, S0116: 2, H0341: 2, S0360: 2, S0408: 2, S0007: 2, S0045: 2, H0351: 2, H0550: 2, S0222: 2, H0586: 2, H0253: 2, H0081: 2, H0050: 2, H0620: 2, H0181: 2, H0087: 2, H0413: 2, H0100: 2, S0144: 2, L0648: 2, L0775: 2, L0378: 2, L0806: 2, L0805: 2, L0776: 2, S0126: 2, H0711: 2, H0522: 2, S0044: 2, S014: 2, L0754: 2, L0592: 2, L0581: 2, H0423: 2, H0624: 1, H0686: 1, H0717: 1, H0716: 1, S0114: 1, T0049: 1, H0656: 1, S0212: 1, H0661: 1, S0442: 1, S0046: 1, S0476: 1, H0370: 1, H0392: 1, H0455: 1, H0592: 1, H0632: 1, H0486: 1, T0060: 1, H0156: 1, H0618: 1, S0474: 1, H0421: 1, S0049: 1, H0052: 1, H0231: 1, H0327: 1, H0546: 1, H0046: 1, H0150: 1, H0041: 1, H0572: 1, H0123: 1, H0012: 1, H0024: 1, H0356: 1, H0288: 1, H0252: 1, H0328: 1, H0428: 1, T0006: 1, H0213: 1, H0606: 1, S0036: 1, H0551: 1, H0661: 1, S0438: 1, S0440: 1, H0646: 1, H0529: 1.</p>	19q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 173850, 207750, 248600, 258501
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2506	HUFAP33	600379	2516	60 - 1046	5113	Tyr-63 to Thr-72, Asn-106 to Ile-115, Lys-133 to Tyr-142, Lys-156 to Leu-161, Cys-272 to Ser-282.	1, L0369: 1, L0762: 1, L0770: 1, L0638: 1, L3904: 1, L0630: 1, L0772: 1, L0767: 1, L0364: 1, L0628: 1, L0807: 1, L0809: 1, H0144: 1, H0547: 1, H0593: 1, H0682: 1, H0658: 1, H0660: 1, H0666: 1, H0648: 1, H0672: 1, H0651: 1, H0539: 1, H0521: 1, H0704: 1, S3012: 1, S0028: 1, S0032: 1, L0747: 1, L0758: 1, S0260: 1, H0445: 1, H0343: 1, S0434: 1, S0194: 1, S0276: 1, H0543: 1, H0422: 1, S0042: 1 and H0506: 1.	10q25.3-q26.1	246600, 263700, 600035, 601969, 601969
2507	HUFAU71	638836	2517	1041 - 1136	5114			12q22-q23.1	124200, 147440, 160781, 201470, 235800, 273300, 600175

2508	HUFBK95	683039	2518	174 - 224	5115			1, L0777: 1, L0780: 1, L0757: 1, L0758: 1, L0686: 1 and H0506: 1.		
2509	HUFBP77	596839	2519	95 - 424	5116	Pro-44 to Asp-50.		AR060: 2, AR316: 1, L0745: 3, H0040: 1, L0768: 1, L0754: 1 and H0506: 1.		
2510	HUFBV62	742892	2520	453 - 548	5117	Cys-13 to Trp-19, Ser-22 to Ile-27.		AR246: 6, AR265: 6, AR244: 5, AR194: 5, AR274: 4, AR282: 3, AR202: 3, AR313: 3, AR052: 3, AR315: 3, AR205: 3, AR039: 3, AR310: 3, AR271: 3, AR206: 3, AR277: 3, AR281: 2, AR089: 2, AR053: 2, AR192: 2, AR312: 2, AR104: 2, AR266: 2, AR299: 2, AR314: 2, AR280: 2, AR213: 2, AR096: 2, AR240: 2, AR060: 2, AR253: 2, AR186: 2, AR182: 2, AR273: 2, AR316: 2, AR309: 2, AR284: 1, AR295: 1, AR033: 1, AR185: 1, AR183: 1, AR270: 1, AR247: 1, AR300: 1, AR290: 1, S0328: 5, H0144: 3, H0013: 2, H0648: 2, H0486: 1, H0596: 1, H0457: 1, L0643: 1, L0626: 1, L0655: 1, H0659: 1, L0759: 1 and H0506: 1.		
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2514	HUKAD46	604986	2524	200 - 352	5121	Arg-45 to Ser-50.	1, H0331: 1, H0581: 1, H0566: 1, L0471: 1, H0708: 1, H0591: 1, H0413: 1, H0646: 1, H0529: 1, L0372: 1, L0662: 1, L0363: 1, L5574: 1, L0533: 1, L0653: 1, L0655: 1, L0527: 1, L0789: 1, L0791: 1, L0663: 1, L0665: 1, H0520: 1, H0683: 1, S0330: 1, H0710: 1, L0747: 1, L0749: 1, L0362: 1, H0542: 1 and H0506: 1.		
2515	HUKA28	843240	2525	61 - 159	5122		L0803: 2, L0589: 2, H0550: 1, H0618: 1, H0424: 1, H0659: 1, L0794: 1, L0789: 1, L0748: 1 and H0445: 1. L0439: 6, L0803: 2, L0747: 2, L0758: 2, H0050: 1, H0059: 1, L0764: 1, L0794: 1, L0776: 1, L0515: 1, L0438: 1 and L0779: 1.		
2516	HUKA050	805975	2526	815 - 835	5123		L0752: 5, L0731: 4, S0222: 3, L0471: 3, L0748: 3, L0439: 3, L0777: 3, S0410: 2, H0351: 2, H0013: 2, H0581: 2, S0003: 2, H0059: 2, L0766: 2, L0803: 2, L0789: 2, L0793: 2, L0663: 2, L0438: 2, L0740: 2, L0751: 2, L0779: 2, L0755: 2, L0589: 2, L0591: 2, S0040: 1, H0716: 1, S0212: 1, S0001: 1, H0600: 1, H0586: 1, H0486: 1, T0109: 1, H0002: 1, H0590: 1, S0346: 1, S0049: 1, H0052: 1, T0010: 1, H0673: 1, H0163: 1, L0564: 1, T0042: 1, S0440: 1, L0520: 1, L0770: 1, L0761: 1, L0800: 1, L0662: 1, L0768: 1, L0805: 1, L0652: 1, L0776: 1, L0659: 1, L0790: 1, L0792: 1, S0374: 1, L0552: 1, H0520: 1, H0519:	8q22-q23	216550, 259730

2517	HUKCS86	826468	2527	201 - 899	5124	Arg-7 to Ser-32, Ala-37 to Glu-50, Ser-52 to Phe-64, Leu-109 to Ala-115.	1, H0435: 1, H0648: 1, S0328: 1, S0152: 1, H0696: 1, H0555: 1, L0749: 1, L0756: 1, L0758: 1, L0759: 1 and S0196: 1. AR089: 25, AR316: 21, AR060: 16 L0745: 27, H0584: 26, H0494: 25, H0556: 19, H0585: 19, H0069: 17, L0659: 17, H0265: 14, H0271: 14, L0666: 12, L0777: 12, S0132: 10, H0551: 10, S0360: 9, H0529: 9, L0662: 9, H0622: 8, L0653: 8, L0746: 8, H0656: 7, S0476: 7, H0575: 7, H0052: 7, H0083: 7, H0416: 7, H0039: 7, L0769: 7, L0664: 7, H0436: 7, H0581: 6, H0555: 6, H0224: 5, L0665: 5, S0126: 5, L0731: 5, S0212: 4, H0179: 4, S0312: 4, L0770: 4, L0774: 4, H0547: 4, H0435: 4, L0439: 4, L0596: 4, H0167: 3, S0040: 3, S0282: 3, S0046: 3, H0266: 3, S0314: 3, H0561: 3, S0440: 3, H0646: 3, L0768: 3, L0766: 3, L0657: 3, L0382: 3, L0809: 3, L0663: 3, H0710: 3, H0543: 3, H0141: 2, H0225: 2, H0222: 2, H0717: 2, H0663: 2, S0418: 2, S0376: 2, S0045: 2, H0550: 2, H0392: 2, H0586: 2, H0559: 2, L0586: 2, H0635: 2, H0427: 2, H0373: 2, T0010: 2, S0340: 2, H0634: 2, H0623: 2, H0625: 2, S0002: 2, L0637: 2, L0772: 2, L0804: 2, L0647: 2, S0052: 2, L0438: 2, H0593: 2, H0658: 2, H0539: 2, H0696: 2, S0406: 2, S0144: 2, S0028: 2, L0751: 2, L0779: 2, L0758:	10per-q26.12
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2518	HUKCS86	844245	2528	201 - 899	5125	Arg-7 to Ser-32,	<p>2, H0445: 2, L0608: 2, L0595: 2, H0542: 2, H0423: 2, H0422: 2, S0424: 2, H0159: 1, H0713: 1, H0657: 1, H0341: 1, H0661: 1, H0402: 1, S0420: 1, S0356: 1, S0442: 1, H0580: 1, H0722: 1, H0645: 1, H0261: 1, H0592: 1, H0587: 1, H0497: 1, H0362: 1, H0333: 1, H0643: 1, H0486: 1, T0060: 1, T0109: 1, H0250: 1, S0280: 1, H0036: 1, S0182: 1, H0196: 1, H0310: 1, H0024: 1, H0014: 1, H0015: 1, H0051: 1, H0201: 1, S0051: 1, H0375: 1, S0318: 1, S0334: 1, S0336: 1, S0316: 1, H0687: 1, H0288: 1, H0286: 1, H0252: 1, T0023: 1, L0483: 1, H0213: 1, H0553: 1, H0617: 1, S0364: 1, L0455: 1, H0708: 1, H0040: 1, H0413: 1, H0059: 1, T0041: 1, H0429: 1, S0370: 1, S0306: 1, H0647: 1, S0426: 1, L0369: 1, L0639: 1, L5565: 1, L0667: 1, L0646: 1, L0764: 1, L0773: 1, L0363: 1, L0803: 1, L0775: 1, L0375: 1, L0651: 1, L0378: 1, L0805: 1, L0652: 1, L0776: 1, L0636: 1, L0783: 1, L0383: 1, L0787: 1, S0428: 1, S0053: 1, H0701: 1, H0703: 1, H0520: 1, H0660: 1, H0672: 1, H0651: 1, S0378: 1, S0380: 1, H0518: 1, S0044: 1, H0134: 1, H0631: 1, S0390: 1, S0037: 1, S0027: 1, S0032: 1, L0740: 1, L0752: 1, L0755: 1, L0759: 1, S0434: 1, L0591: 1, H0653: 1, S0276: 1 and S0384: 1</p>	10pter-q26.12
						ARC089: 25, AR316: 21,		

				Ala-37 to Glu-50, Ser-52 to Phe-64, Leu-109 to Ala-115.	AR060: 16 L0745: 27, H0584: 26, H0494: 25, H0556: 19, H0585: 19, H0069: 17, L0659: 17, H0265: 14, H0271: 14, L0666: 12, L0777: 12, S0132: 10, H0551: 10, S0360: 9, H0529: 9, L0662: 9, H0622: 8, L0653: 8, L0746: 8, H0656: 7, S0476: 7, H0575: 7, H0052: 7, H0083: 7, H0416: 7, H0039: 7, L0769: 7, L0664: 7, H0436: 7, H0581: 6, H0535: 6, H0224: 5, L0665: 5, S0126: 5, L0731: 5, S0212: 4, H0179: 4, S0312: 4, L0770: 4, L0774: 4, H0547: 4, H0435: 4, L0439: 4, L0596: 4, H0167: 3, S0040: 3, S0282: 3, S0046: 3, H0266: 3, S0314: 3, H0561: 3, S0440: 3, H0646: 3, L0768: 3, L0766: 3, L0657: 3, L0382: 3, L0809: 3, L0663: 3, H0710: 3, H0543: 3, H0141: 2, H0225: 2, H0222: 2, H0717: 2, H0663: 2, S0418: 2, S0376: 2, S0045: 2, H0550: 2, H0392: 2, H0586: 2, H0559: 2, L0586: 2, H0635: 2, H0427: 2, H0373: 2, T0010: 2, S0340: 2, H0634: 2, H0623: 2, H0625: 2, S0002: 2, L0637: 2, L0772: 2, L0804: 2, L0647: 2, S0052: 2, L0438: 2, H0593: 2, H0658: 2, H0539: 2, H0696: 2, S0406: 2, S014: 2, S0028: 2, L0751: 2, L0779: 2, L0758: 2, H0445: 2, L0608: 2, L0595: 2, H0542: 2, H0423: 2, H0422: 2, S0424: 2, H0159: 1, H0713: 1, H0657: 1, H0341: 1, H0661: 1, H0402: 1, S0420: 1, S0356:
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2521	HUKEX37	602275	2531	220 - 291	5128					118210, 120550, 120570, 120575, 121800, 130500, 133200, 138140, 138971, 171760, 171760, 172411, 178300, 185470, 230350, 255800, 602771		
2522	HUKFC71	1300740	2532	260 - 289	5129							

2523	HUKIV37	845161 84644	2607 2533	261 - 290 49 - 720	5204 5130	Asn-62 to Tyr-70.	<p>1, L0634: 1, L0782: 1, H0690: 1, H0659: 1, H0658: 1, H0670: 1, H0648: 1, S0037: 1, S0027: 1, L0748: 1, L0749: 1, L0757: 1, L0759: 1, H0444: 1, S0436: 1, S0026: 1 and H0542: 1.</p> <p>AR274: 496, AR273: 373, AR251: 290, AR271: 272, AR218: 262, AR052: 257, AR290: 255, AR280: 243, AR275: 242, AR219: 238, AR314: 232, AR309: 229, AR315: 228, AR096: 219, AR213: 212, AR240: 208, AR053: 204, AR243: 202, AR313: 191, AR247: 190, AR310: 186, AR283: 183, AR265: 183, AR312: 180, AR175: 177, AR289: 176, AR284: 169, AR244: 162, AR256: 158, AR266: 157, AR263: 155, AR179: 154, AR281: 152, AR286: 152, AR291: 150, AR089: 149, AR283: 144, AR299: 143, AR177: 140, AR282: 140, AR316: 139, AR300: 133, AR296: 127, AR267: 127, AR253: 124, AR194: 122, AR185: 121, AR248: 120, AR182: 119, AR039: 119, AR198: 116, AR241: 116, AR184: 114, AR268: 109, AR186: 108, AR269: 108, AR249: 107, AR270: 107, AR104: 107, AR205: 102, AR246: 101, AR192: 100, AR202: 99, AR060: 97, AR238: 96, AR204: 91,</p>	17qter	
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2529	HUSC01	740775	2539	205 - 255	5136	<p>AR284: 6, AR033: 6, AR186: 6, AR053: 5, AR253: 5, AR309: 5, AR289: 5, AR310: 5, AR290: 5, AR238: 5, AR183: 5, AR229: 5, AR266: 5, AR177: 5, AR185: 5, AR248: 5, AR240: 4, AR294: 4, AR246: 4, AR282: 4, AR055: 4, AR295: 4, AR249: 4, AR233: 4, AR194: 3, AR251: 3, AR277: 3, AR231: 3, AR061: 3, AR283: 3, AR218: 3, AR227: 3, AR258: 3, AR226: 3, AR234: 3, AR237: 3, AR243: 2, AR175: 2, AR198: 2, AR219: 2, AR275: 2, AR232: 2, AR179: 2, AR314: 2, AR256: 2, AR274: 2, AR244: 2, AR259: 1, AR263: 1, AR104: 1, L0471: 2, H0038: 2, H0268: 2, H0556: 1, S0402: 1, H0341: 1, H0392: 1, H0486: 1, H0598: 1, L0633: 1, L0527: 1, L0517: 1 and H0444: 1.</p> <p>L0777: 6, L0766: 3, L0438: 3, L0662: 2, L0439: 2, L0779: 2, L0731: 2, H0402: 1, H0580: 1, H0581: 1, H0266: 1, S0003: 1, H0119: 1, H0268: 1, L0764: 1, L0661: 1, L0809: 1, L0647: 1, L0665: 1, L0352: 1, S0146: 1, L0748: 1, L0740: 1, L0758: 1, L0759: 1, S0260: 1 and S0276: 1.</p>
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2530	HUSGB23	704094	2540	168 - 281	5137	Arg-26 to Ser-37.	AR089: 5, AR316: 3, AR060: 2 H0038: 8, H0616: 5, L0758: 5, L0779: 4, L0794: 3, S0420: 2, H0013: 2, H0069: 2, H0253: 2, L0471: 2, H0264: 2, H0144: 2, L0439: 2, L0740: 2, L0745: 2, H0556: 1, S0134: 1, H0661: 1, S0418: 1, H0486: 1, H0244: 1, H0635: 1, H0581: 1, H0046: 1, S0250: 1, S0003: 1, H0553: 1, H0412: 1, H0623: 1, L0804: 1, L0790: 1, L0532: 1, L0438: 1, H0520: 1, H0521: 1, L0748: 1, L0754: 1, L0777: 1, L0753: 1, L0604: 1, L0594: 1 and H0423: 1.	
2531	HUSG09	608133	2541	191 - 289	5138		H0571: 1 and H0412: 1.	
2532	HUSG07	610258	2542	73 - 177	5139		L0666: 3, H0156: 2, H0581: 2, L0803: 2, L0754: 2, L0777: 2, L0759: 2, S0436: 2, H0423: 2, H0657: 1, H0486: 1, L0586: 1, H0564: 1, H0628: 1, H0032: 1, H0674: 1, S0366: 1, H0090: 1, T0067: 1, H0412: 1, L0662: 1, L0650: 1, L0774: 1, L0789: 1, H0144: 1, S0148: 1, S0152: 1, H0696: 1, L0740: 1 and L0755: 1.	
2533	HUSG15	759888	2543	643 - 711	5140		S0376: 1, H0580: 1, H0614: 1, H0284: 1, H0268: 1, H0412: 1, H0623: 1, T0042: 1, S0126: 1, H0539: 1, H0521: 1 and L0779: 1.	
2534	HUSHD41	866498	2544	227 - 445	5141	Asp-33 to Arg-40.	H0271: 5, H0083: 3, L0794: 3, H0656: 2, H0457: 2, H0179: 2, L0791: 2, H0521: 2, L0744: 2, H0707: 2, H0265: 1, H0556: 1, H0657: 1, H0449: 1, H0580: 1, S0046: 1, H0411: 1, H0437:	11

2535	HUSHK65	847188	2545	812-2275	5142	Ser-14 to Gly-28, Leu-30 to Ala-35, Pro-41 to Glu-54, Arg-89 to Glu-94, Ser-124 to Ala-131, Thr-142 to Thr-152, Pro-161 to Asp-172, Glu-203 to Trp-210, Cys-228 to Ser-238, Thr-296 to Trp-316, Pro-318 to Glu-325, Ser-347 to Tyr-354, Ala-441 to Ser-457, Ser-480 to Phe-486.	<p> 1, H0333: 1, H0486: 1, H0250: 1, S6028: 1, H0615: 1, H0628: 1, L0055: 1, H0040: 1, H0634: 1, S0144: 1, H0529: 1, L0769: 1, L0768: 1, L0766: 1, L0803: 1, L0653: 1, L0793: 1, L0666: 1, S0052: 1, H0689: 1, H0522: 1, H0436: 1, L0743: 1, L0749: 1, L0779: 1, H0445: 1 and H0542: 1, L0740: 28, L0777: 15, L0731: 15, L0748: 14, L0747: 10, L0439: 8, L0750: 8, L0749: 7, L0756: 7, L0754: 6, H0622: 5, L0792: 5, H0090: 4, L0769: 4, H0135: 3, S0344: 3, L0662: 3, L0804: 3, L0805: 3, L0438: 3, L0597: 3, S0046: 2, H0333: 2, H0013: 2, H0427: 2, H0266: 2, H0551: 2, H0623: 2, L0761: 2, L0768: 2, L0803: 2, L0806: 2, L0789: 2, L0666: 2, H0547: 2, H0521: 2, H0522: 2, H0555: 2, S0706: 2, L0779: 2, L0759: 2, L0588: 2, L0599: 2, H0624: 1, H0663: 1, S0360: 1, S0045: 1, H0393: 1, S0278: 1, H0437: 1, H0431: 1, T0039: 1, H0575: 1, H0050: 1, L0471: 1, H0620: 1, S0051: 1, H0267: 1, H0039: 1, H0030: 1, H0316: 1, H0412: 1, H0056: 1, S0112: 1, L0564: 1, H0561: 1, H0641: 1, S0142: 1, L0770: 1, L0772: 1, L0800: 1, L0648: 1, L0794: 1, L0381: 1, L0375: 1, L0776: 1, L0807: 1, L0809: 1, L0790: 1, L0791: 1, H0144: 1, H0693: 1, L0352: 1, S0330: 1, S0378: 1, H0134: 1, L0741: 1, L0786: 1, 100730, 118800, 123660, 135600, 157655, 186860, 201460, 205100, 262000, 601277, 601318 </p>
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2536	HUSIK45	853932	2546	204 - 305	5143			SO260: 1, L0592: 1, L0581: 1, H0543: 1 and H0506: 1. AR089: 2, AR316: 1 H0551: 7, S0418: 5, L0776: 5, L0105: 3, H0171: 2, S0214: 2, H0685: 1, H0657: 1, S0116: 1, H0411: 1, S0222: 1, H0581: 1, S0003: 1, L0455: 1, H0040: 1, H0412: 1, T0069: 1, T0041: 1, H0281: 1, L0369: 1, L0766: 1, L0804: 1, L0659: 1, L0636: 1, S0052: 1, H0144: 1, H0435: 1, S0152: 1, H0525: 1, S3014: 1, L0752: 1, L0757: 1, H0343: 1, L0362: 1 and H0543: 1.	1p36.13-q31.3	115665, 120550, 120570, 120575, 130500, 133200, 138140, 167410, 172430, 600975
2537	HUSIO57	886206	2547	177 - 302	5144	Ala-21 to Ser-27, Pro-33 to Pro-41.	AR089: 4, AR316: 4, AR060: 3 L0742: 10, L0731: 4, L0748: 3, L0747: 3, L0758: 3, L0763: 2, L0764: 2, L0766: 2, L0439: 2, H0556: 1, S0376: 1, S0222: 1, H0156: 1, S0010: 1, S0474: 1, H0123: 1, H0012: 1, H0083: 1, H0328: 1, H0688: 1, H0412: 1, S0210: 1, L0644: 1, L0662: 1, L0806: 1, L0776: 1, L0655: 1, L0665: 1, L0438: 1, H0659: 1, S0380: 1, S0032: 1 and H0543: 1.			
2538	HUSIP17	608647	2548	301 - 381	5145	Asp-17 to Lys-25.	H0412: 1.			
2539	HUSIR70	838163	2549	281 - 361	5146		AR089: 17, AR316: 13, AR060: 10 H0266: 17, L0777: 16, L0439: 13, L0748: 10, L0758: 9, L0744: 8, L0776: 7, L0754: 7, L0666: 6, S0360: 5, S0438: 5, S0126: 5, S0436: 5, L0599: 5, H0265: 4, S0040: 4, H0271: 4, H0644: 4, L0769: 4, L0764: 4, L0438: 4, H0522: 4, S0406:	20p11.22- p11.21		

2540	HUSXP30	561962	2550	42 - 200	5147	Glu-6 to Thr-12, Ser-46 to Ser-52.	1, L0652: 1, L0653: 1, L0807: 1, L0657: 1, L0659: 1, L0809: 1, L0367: 1, L0789: 1, L0664: 1, L0665: 1, L0701: 1, S0374: 1, H0689: 1, H0690: 1, H0435: 1, H0639: 1, H0648: 1, H0672: 1, S0044: 1, L0611: 1, S0390: 1, S0206: 1, S0032: 1, L0786: 1, L0779: 1, L0753: 1, L0757: 1, S0031: 1, H0445: 1, L0581: 1, S0194: 1 and H0506: 1, H0550: 2, H0413: 1 and H0696: 1.	1q12-q21.2	104770, 107670, 110700, 145001, 146760, 146790, 159001, 191315, 600897, 601412, 601652, 601863, 602491
2541	HUSXY93	658733	2551	148 - 207	5148		AR089: 10, AR316: 7, AR060: 5 S0358: 3, H0013: 3, L0770: 3, L0591: 3, H0486: 2, H0553: 2, H0412: 2, L0764: 2, L0655: 2, H0521: 2, L0750: 2, L0752: 2, L0592: 2, H0624: 1, H0675: 1, H0339: 1, S6022: 1, H0592: 1, H0586: 1, H0587: 1, H04923: 1, L0105: 1, H0309: 1, H0674: 1, H0413: 1, H0494: 1, S0448: 1, H0529: 1, L0451: 1, L0769: 1, L0643: 1, L0773: 1, L0648: 1, L0662: 1, L0659: 1, L0809: 1, L0666: 1, S0374: 1, H0520: 1, H0648: 1, S0378: 1, H0479: 1, L0748: 1, L0749: 1 and L0596: 1.	7p21-p15.3	153880, 601622, 601649
2542	HUSYG26	709709	2552	421 - 630	5149	Thr-40 to Asn-63.	AR089: 21, AR316: 16, AR060: 11 L0794: 10, H0617: 7, L0769: 5, L0740: 5, H0253: 4, H0620:		

2543	HUVCQ68	561963	2553	265 - 342	5150			4. L0803: 4, L0742: 4, L0743: 4, H0550: 3, L0468: 3, L0766: 3, L0809: 3, L0746: 3, H0486: 2, H0599: 2, H0545: 2, H0628: 2, H0413: 2, L0800: 2, L0771: 2, L0806: 2, S0126: 2, H0522: 2, L0747: 2, L0779: 2, L0777: 2, L0755: 2, H0663: 1, S0360: 1, H0580: 1, S0132: 1, H0618: 1, S0049: 1, H0012: 1, H0622: 1, H0606: 1, H0124: 1, H0634: 1, H0412: 1, H0056: 1, H0623: 1, H0509: 1, S0150: 1, L0763: 1, L0770: 1, L0761: 1, L0772: 1, L0764: 1, L0767: 1, L0776: 1, L0657: 1, L0659: 1, L0782: 1, L0789: 1, L0790: 1, L0565: 1, S0152: 1, H0521: 1, L0750: 1, L0786: 1, L0757: 1, S0192: 1, S0276: 1, H0542: 1 and H0423: 1.	2p12-p11.2	147200, 178640, 216900
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2544	HUVDG58	895443	2554	27 - 143	5151	<p>2, L0768: 2, L0774: 2, L0806: 2, L0659: 2, L0518: 2, L0663: 2, H0521: 2, H0696: 2, S0406: 2, L0754: 2, L0749: 2, L0777: 2, L0752: 2, L0753: 2, S0434: 2, S0436: 2, L0362: 2, L0603: 2, H0665: 2, H0422: 2, S0452: 2, H0170: 1, H0171: 1, H0556: 1, H0685: 1, S0116: 1, H0484: 1, H0661: 1, H0459: 1, L0481: 1, H0193: 1, S0418: 1, H0580: 1, H0722: 1, S0132: 1, H0282: 1, H0497: 1, H0486: 1, T0114: 1, H0635: 1, H0004: 1, H0581: 1, H0421: 1, S0049: 1, H0085: 1, H0123: 1, H0620: 1, H0014: 1, S0314: 1, S0214: 1, H0252: 1, H0622: 1, H0644: 1, H0606: 1, L0055: 1, H0673: 1, H0674: 1, H0124: 1, H0634: 1, H0264: 1, H0272: 1, H0117: 1, H0512: 1, H0366: 1, S0372: 1, S0438: 1, S0440: 1, H0509: 1, H0130: 1, S0144: 1, S0142: 1, H0695: 1, L0763: 1, L0769: 1, L0637: 1, L0646: 1, L0800: 1, L0645: 1, L0773: 1, L0662: 1, L5564: 1, L0381: 1, L0499: 1, L0497: 1, L0375: 1, L0651: 1, L0655: 1, L0493: 1, L0636: 1, L0782: 1, L0783: 1, L0530: 1, L0788: 1, L0664: 1, H0144: 1, S0374: 1, H0726: 1, H0520: 1, H0689: 1, H0690: 1, H0658: 1, H0670: 1, H0660: 1, S0328: 1, S0330: 1, S0136: 1, H0436: 1, L0751: 1, L0780: 1, L0758: 1, L0759: 1, H0445: 1, H0543: 1, S0398: 1, L0600: 1 and H0352: 1.</p> <p>S0002: 2, H0056: 1 and</p>
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2545	HUVEG53	797556	2555	366-434	5152		<p>H0593: 1.</p> <p>AR089: 10, AR316: 9,</p> <p>AR060: 7</p> <p>L0766: 5, L0731: 5, L0777:</p> <p>4, H0449: 2, S0422: 2, L0776:</p> <p>2, L0759: 2, H0341: 1, S0420:</p> <p>1, H0575: 1, S0665: 1, H0030:</p> <p>1, H0068: 1, H0090: 1, H0264:</p> <p>1, H0056: 1, T0042: 1, H0625:</p> <p>1, S0344: 1, H0529: 1, L0800:</p> <p>1, L0771: 1, L0648: 1, L0806:</p> <p>1, L0807: 1, L0665: 1, H0144:</p> <p>1, H0658: 1, H0670: 1, H0521:</p> <p>1, L0740: 1, L0601: 1 and</p> <p>S0192: 1.</p>		
2546	HWAH11	815548	2556	479-757	5153	His-81 to Ser-92.	<p>AR060: 13, AR316: 13,</p> <p>AR089: 13</p> <p>L0439: 6, L0662: 5, L0438:</p> <p>5, H0556: 3, L0766: 3, H0521:</p> <p>3, L0748: 3, L0751: 3, L0599:</p> <p>3, H0370: 2, H0618: 2, H0494:</p> <p>2, L0805: 2, L0659: 2, L0809:</p> <p>2, L0792: 2, H0539: 2, L0777:</p> <p>2, L0731: 2, L0757: 2, S0436:</p> <p>2, H0506: 2, H0158: 1, H0341:</p> <p>1, S0212: 1, H0484: 1, H0663:</p> <p>1, H0662: 1, S0420: 1, S0376:</p> <p>1, H0580: 1, H0549: 1, H0427:</p> <p>1, L0021: 1, H0381: 1, H0544:</p> <p>1, H0545: 1, H0009: 1, H0083:</p> <p>1, H0622: 1, S0036: 1, H0634:</p> <p>1, H0616: 1, L0351: 1, S0150:</p> <p>1, H0646: 1, S0142: 1, S0344:</p> <p>1, L0769: 1, L5566: 1, L0641:</p> <p>1, L0643: 1, L0645: 1, L0649:</p> <p>1, L0386: 1, L0653: 1, L0657:</p> <p>1, L0783: 1, L0789: 1, L0793:</p> <p>1, L0666: 1, L0663: 1, L0664:</p> <p>1, L0665: 1, S0374: 1, L0565:</p> <p>1, H0689: 1, H0684: 1, H0523:</p>		

2547	HWAQAQ28	806588	2557	443 - 706	5154	Met-1 to Arg-6 Arg-58 to Arg-63.	1, L0754: 1, L0747: 1, L0779: 1, 1, L0601: 1 and S0446: 1. AR060: 170, AR316: 136, AR089: 100 L0748: 21, L0747: 14, L0758: 13, L0750: 12, L0740: 10, L0439: 7, L0751: 7, H0622: 6, H0553: 6, H0521: 6, H0549: 5, H0046: 5, H0494: 5, L0766: 5, L0774: 5, L0776: 5, L0755: 5, L0731: 5, H0265: 4, H0657: 4, S0376: 4, H0580: 4, H0013: 4, H0581: 4, H0169: 4, H0038: 4, L0770: 4, L0764: 4, L0662: 4, L0741: 4, H0445: 4, L0588: 4, L0595: 4, H0136: 4, S0358: 3, H0486: 3, H0251: 3, H0597: 3, H0620: 3, H0510: 3, H0135: 3, H0551: 3, L0771: 3, L0775: 3, S0374: 3, H0539: 3, L0756: 3, L0757: 3, L0599: 3, H0624: 2, H0556: 2, S0040: 2, S0418: 2, S0420: 2, H0351: 2, S0278: 2, S0222: 2, H0392: 2, H0586: 2, H0333: 2, H0618: 2, L0471: 2, S0388: 2, L0487: 2, T0041: 2, H0509: 2, L0638: 2, H0519: 2, S0126: 2, H0658: 2, H0670: 2, L0602: 2, H0518: 2, S0152: 2, S0037: 2, S3014: 2, L0744: 2, L0777: 2, L0596: 2, L0589: 2, L0605: 2, L0590: 2, L0362: 2, H0643: 2, H0423: 2, S0424: 2, H0171: 1, H0686: 1, S0430: 1, H0656: 1, S0116: 1, H0484: 1, H0483: 1, H0241: 1, H0638: 1, S0046: 1, H0441: 1, H0370: 1, H0438: 1, H0592: 1, H0642: 1, T0039: 1, T0114: 1, S0280: 1, L0021: 1, H0042: 1,	118504, 118504, 131242, 139320, 139320, 139320, 139320, 602025, 602235
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2548	HWAAY60	745917	2558	488 - 565	5155	S0474: 1, H0421: 1, H0052: 1, H0309: 1, T0110: 1, L0040: 1, H0231: 1, H0327: 1, H0544: 1, H0439: 1, H0457: 1, H0178: 1, H0081: 1, H0012: 1, S0051: 1, H0594: 1, H0179: 1, H0271: 1, H0188: 1, H0290: 1, H0615: 1, H0428: 1, H0039: 1, H0213: 1, L0142: 1, H0628: 1, H0673: 1, S0036: 1, H0090: 1, H0040: 1, H0413: 1, T0004: 1, L0351: 1, L0564: 1, H0022: 1, T0042: 1, H0641: 1, S0144: 1, S0142: 1, L0763: 1, L0769: 1, L0761: 1, L0667: 1, L0772: 1, L0372: 1, L0641: 1, L0767: 1, L0768: 1, L0364: 1, L0803: 1, L0375: 1, L0376: 1, L0655: 1, L0513: 1, L0659: 1, L0526: 1, L0809: 1, L0647: 1, L0666: 1, L0663: 1, L0665: 1, S0216: 1, H0520: 1, H0690: 1, H0435: 1, H0660: 1, H0672: 1, S0378: 1, S0454: 1, H0522: 1, H0696: 1, S0406: 1, S0206: 1, L0752: 1, L0759: 1, S0026: 1, S0276: 1, S0196: 1 and S0446: 1.	1
						L0747: 9, L0777: 8, L0794: 7, L0754: 5, L0749: 5, L0666: 4, S0406: 4, L0748: 4, L0757: 4, H0046: 3, L0803: 3, L0805: 3, L0751: 3, H0656: 2, S0360: 2, H0581: 2, L0770: 2, L0769: 2, L0771: 2, L0773: 2, L0809: 2, L0665: 2, H0659: 2, H0696: 2, L0779: 2, L0758: 2, L0759: 2, L0599: 2, H0170: 1, T0002: 1, S0430: 1, S0418: 1, S0420: 1, H0497: 1, H0156: 1, L0471: 1, T0006: 1, H0553: 1, H0038:	

2549	HWABR43	823367	2559	258 - 353	5156	Thr-19 to Phe-24.	1, H0494; 1, S0440; 1, H0529; 1, L0800; 1, L0662; 1, L0768; 1, L0766; 1, L0804; 1, L0774; 1, L0776; 1, L0655; 1, L0659; 1, L0783; 1, L0787; 1, L0788; 1, L0792; 1, L0664; 1, H0547; 1, H0690; 1, H0670; 1, L0756; 1, L0752; 1, L0755; 1, L0731; 1, L0593; 1, L0595; 1, H0542; 1, H0543; 1 and H0423; 1, L0748; 5, H0574; 1, H0581; 1 and L0749; 1.	
2550	HWACH06	799620	2560	318 - 365	5157	Pro-2 to His-8.	AR060: 2, AR316; 2, S0420; 1, S0376; 1, H0632; 1, H0581; 1, H0196; 1, H0052; 1, H0024; 1, H0014; 1, H0135; 1, H0561; 1, S0374; 1, H0519; 1, H0436; 1, L0748; 1 and L0777; 1.	1
2551	HWACZ33	827311	2561	110 - 298	5158	Leu-19 to Ala-50.	H0556; 1, H0618; 1, H0581; 1, L0761; 1, H0539; 1 and H0522; 1.	
2552	HWADV90	897732	2562	314 - 382	5159		AR089: 25, AR316; 25, AR060: 25, H0581; 1, L0766; 1 and H0542; 1.	
2553	HWABE52	873207	2563	212 - 1429	5160	Leu-51 to Gly-56, Pro-64 to Gly-78, Gly-92 to Pro-106, Pro-114 to Ser-119, Ser-123 to Gln-129, Ser-138 to His-143, Ala-161 to Gly-173, Pro-175 to Ala-215, Ser-220 to Ser-228, Pro-235 to Gln-245, Thr-252 to Asn-261, His-269 to Thr-287, Pro-289 to Ser-296,	AR089: 6, AR316; 5, AR060: 5, L0748; 9, L0794; 8, L0754; 7, L0803; 5, L0776; 4, L0758; 4, L0809; 3, L0747; 3, L0731; 3, H0637; 2, H0442; 2, H0288; 2, L0769; 2, L0761; 2, H0144; 2, L0740; 2, L0745; 2, H0445; 2, L0596; 2, T0002; 1, H0686; 1, T0049; 1, S0212; 1, H0663; 1, S0376; 1, S0476; 1, H0370; 1, T0114; 1, H0013; 1, H0097; 1, L0105; 1, H0581; 1, H0039;	

2554	HWBAK71	853581	2564	260 - 313	5161		Gly-306 to Gly-316, Pro-319 to Gly-341, Ser-364 to Arg-373, Ser-381 to Pro-389.	1, H0031: 1, H0644: 1, H0135: 1, H0488: 1, H0269: 1, H0646: 1, L0369: 1, L0800: 1, L0764: 1, L0662: 1, L0768: 1, L0766: 1, L0515: 1, L0659: 1, L0788: 1, L0666: 1, L0663: 1, L0664: 1, L0068: 1, H0682: 1, H0684: 1, H0522: 1, H0555: 1, S3014: 1, S0027: 1, S0032: 1, L0749: 1, L0756: 1, L0780: 1, L0755: 1, H0667: 1, H0423: 1, S0398: 1, H0677: 1, S0456: 1 and L0600: 1.		
2555	HWBBU75	780360	2565	783 - 938	5162	Ser-17 to Gly-22, Leu-34 to Ala-42.		AR060: 889, AR316: 732, AR089: 579 H0580: 1 H0531: 7, H0580: 5, L0665: 4, H0457: 3, L0766: 3, L0745: 3, L0761: 2, L0806: 2, L0789: 2, L0750: 2, H0542: 2, H0650: 1, H0656: 1, H0581: 1, H0271: 1, H0553: 1, H0413: 1, H0641: 1, S0002: 1, L0774: 1, H0660: 1, H0555: 1, L0753: 1 and H0423: 1.		
2556	HWBCN81	853580	2566	615 - 797	5163	Ser-32 to Thr-43.		AR162: 14, AR161: 13, AR163: 13, AR313: 11, AR089: 11, AR165: 9, AR229: 9, AR164: 9, AR166: 9, AR264: 8, AR184: 8, AR096: 7, AR177: 7, AR293: 6, AR183: 6, AR316: 6, AR248: 6, AR259: 6, AR296: 6, AR219: 5, AR314: 5, AR173: 5, AR249: 5, AR060: 5, AR290: 5, AR315: 5, AR268: 5, AR174: 5, AR182: 5, AR181: 5,		

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2557	HWBCP16	647378	2567	140 - 304	5164		AR192: 1, AR310: 1, AR228: 1, AR262: 1, AR283: 1, AR193: 1, AR189: 1 H0580: 3, H0549: 2, S0278: 1, H0250: 1, H0575: 1, S0474: 1, H0581: 1, L0664: 1 and H0518: 1.		
2558	HWBCX03	853418	2568	261 - 353	5165		AR089: 9, AR316: 7, AR060: 6 H0457: 10, H0550: 5, H0436: 5, H0549: 4, H0616: 4, H0556: 3, H0580: 3, S0007: 3, H0521: 3, L0747: 3, H0295: 2, T0040: 2, L0809: 2, L0789: 2, H0658: 2, L0731: 2, L0596: 2, H0543: 2, S0040: 1, S0282: 1, H0662: 1, H0402: 1, H0125: 1, L0534: 1, L0562: 1, S0356: 1, S0358: 1, S0046: 1, H0559: 1, H0069: 1, H0599: 1, H0618: 1, H0318: 1, H0581: 1, H0546: 1, H0123: 1, H0083: 1, H0266: 1, H0687: 1, H0284: 1, H0124: 1, H0038: 1, H0551: 1, H0623: 1, S0038: 1, T0041: 1, S0150: 1, S0002: 1, L0761: 1, L0627: 1, L0662: 1, L0666: 1, H0547: 1, H0519: 1, H0539: 1, S0037: 1, S0206: 1, L0748: 1, L0777: 1, H0595: 1 and L0593: 1.		
2559	HWBEF34	799430	2569	134 - 268	5166		AR060: 2, AR316: 2, AR089: 2 H0556: 1, S0114: 1, H0580: 1, H0351: 1, S0222: 1, H0318: 1, L0655: 1, H0521: 1 and H0445: 1.		

2560	HWFB23	853319	2570	40 - 156	5167		H0052: 6, H0171: 3, H0486: 3, H0624: 2, H0013: 2, L0776: 2, L0527: 2, H0539: 2, L0754: 2, L0756: 2, L0759: 2, H0542: 2, H0170: 1, H0341: 1, H0305: 1, H0393: 1, H0427: 1, H0036: 1, H0318: 1, H0581: 1, H0596: 1, H0597: 1, H0615: 1, H0090: 1, H0591: 1, H0040: 1, T0004: 1, S0422: 1, L0766: 1, L0774: 1, L0783: 1, L0790: 1, L0663: 1, H0593: 1, S0126: 1, S0328: 1, S0330: 1, H0521: 1, S0406: 1, H0478: 1, H0447: 1, L0744: 1, L0758: 1, S0031: 1, H0445: 1 and S0412: 1.		
2561	HWFB40	826791	2571	315 - 368	5168		H0635: 1, T0004: 1, S0464: 1, L0800: 1, L0662: 1 and L0666: 1.		
2562	HWHG77	788555	2572	660 - 764	5169		H0592: 2, H0586: 2, H0601: 1, H0600: 1 and H0587: 1.		
2563	HWHCW09	702032	2573	268 - 453	5170		AR089: 18, AR316: 16, AR060: 14, H0232: 2, S0380: 2, L0748: 2, L0740: 2, S0358: 1, S0360: 1, H0586: 1, H0486: 1, H0575: 1, H0263: 1, H0615: 1, H0031: 1, S0438: 1, L0766: 1, L0776: 1, L0543: 1, H0144: 1, L0356: 1, L0745: 1, L0746: 1, L0758: 1, S0434: 1 and H0543: 1.	12q14.1-q15	181430, 600698, 600698, 600698, 600808, 602116
2564	HWHR21	638966	2574	213 - 398	5171		AR000: 3, AR316: 2, H0587: 3 and H0586: 1.		
2565	HWHP44	778090	2575	166 - 288	5172		AR000: 1, H0587: 1, L0653: 1, L0659: 1 and L0759: 1.	8q24.1-q24.2	188450, 188450, 188450
2566	HWHR51	853421	2576	148 - 327	5173	Asp-28 to Lys-35.	AR316: 2, AR089: 2, AR060: 2, S0358: 7, H0521: 7, H0271: 1.		

2567	HWLAT50	840753	2577	2741 - 2776	5174	6, H0598: 6, L0532: 5, H0555: 5, H0574: 4, H0581: 4, L0766: 4, L0754: 4, S0011: 4, H0543: 4, H0556: 3, S0442: 3, H0370: 3, H0587: 3, H0097: 3, H0673: 3, L0662: 3, L0803: 3, L0518: 3, L2269: 3, L0758: 3, H0293: 3, H0265: 2, S0114: 2, S0444: 2, H0575: 2, H0318: 2, H0179: 2, H0628: 2, H0264: 2, L0369: 2, L0561: 2, L0809: 2, S0152: 2, S0028: 2, L0745: 2, L0592: 2, H0624: 1, T0002: 1, S0040: 1, S0342: 1, H0294: 1, S0218: 1, S0212: 1, H0402: 1, S0360: 1, H0580: 1, H0722: 1, H0339: 1, S0046: 1, S0476: 1, H0619: 1, H0549: 1, H0550: 1, S0222: 1, H0331: 1, H0632: 1, H0486: 1, H0069: 1, H0427: 1, H0599: 1, H0036: 1, H0590: 1, H0014: 1, H0071: 1, H0355: 1, H0416: 1, L0177: 1, S0250: 1, S0003: 1, H0252: 1, H0328: 1, T0023: 1, L0483: 1, H0553: 1, L0142: 1, H0674: 1, H0388: 1, H0068: 1, H0316: 1, H0531: 1, T0004: 1, H0429: 1, H0625: 1, H0561: 1, S0440: 1, H0538: 1, S0002: 1, L0770: 1, L0639: 1, L0800: 1, L0768: 1, L0551: 1, L0525: 1, L0527: 1, L0657: 1, L0526: 1, L0530: 1, L0367: 1, L0791: 1, L0666: 1, L0665: 1, S0330: 1, H0436: 1, H0576: 1, H0345: 1, H0665: 1, S0196: 1 and H0422: 1.	12
						AR089: 27, AR316: 23, AR060: 20 L0747: 10, L0439: 6, L0595:	

2568	HWLBO67	834315	2578	42 - 161	5175				1, L0663: 1, L0664: 1, L0665: 1, H0691: 1, L0438: 1, H0519: 1, S0126: 1, H0672: 1, S0330: 1, H0539: 1, S0152: 1, H0522: 1, S0406: 1, H0552: 1, S3012: 1, S3014: 1, L0742: 1, L0750: 1, L0756: 1, L0777: 1, L0592: 1, L0604: 1, S0242: 1, S0196: 1 and H0352: 1.			138079, 138079, 165240, 165240, 165240, 180104, 203740, 219800, 261670, 601649	
2569	HWLGP26	834770	2579	1091 - 1306	5176	Pro-26 to Met-35.			AR089: 3, AR316: 2, AR060: 2, L0766: 5, L0803: 5, H0551: 2, L0794: 2, H0435: 2, L0756: 2, L0731: 2, H0585: 1, S0212: 1, S0282: 1, L0534: 1, S0354: 1, H0486: 1, H0014: 1, H0354: 1, H0290: 1, H0644: 1, H0135: 1, S0150: 1, H0647: 1, L0369: 1, L0640: 1, L0763: 1, L0770: 1, L0646: 1, L0771: 1, L0804: 1, L0784: 1, L0528: 1, L0789: 1, L0790: 1, L0792: 1, H0658: 1, S0037: 1, L0749: 1, L0758: 1 and H0543: 1.	7p13			
2570	HWLHO31	837480	2580	183 - 215	5177				AR060: 2, AR316: 1, L0749: 3, S0354: 2, H0050: 1 and L0602: 1.	8			
2571	HWLIL31	793698	2581	531 - 650	5178				L0777: 3, L0666: 2, L0750: 2, S0110: 1, S0358: 1, H0251: 1, T0006: 1, L0364: 1, L0659: 1, L0809: 1, H0659: 1, S0378: 1, L0779: 1, L0731: 1 and S0026: 1.				
2572	HWLIN08	800626	2582	594 - 689	5179	Lys-25 to Ser-30.			AR060: 33, AR316: 31, AR089: 30, L0759: 5, L0783: 4, L0750: 4, L0769: 3, L0774: 3, L0748: 3, L0747: 3, L0731: 3, S0358:				

2573	HWLRE03	831198	2583	2526-2588	5180			2, S0408: 2, H0031: 2, L0639: 2, L0775: 2, H0547: 2, L0754: 2, L0749: 2, L0779: 2, H0295: 1, H0341: 1, H0484: 1, S0444: 1, S0360: 1, S0476: 1, H0549: 1, H0550: 1, H0586: 1, H0574: 1, L0622: 1, H0581: 1, H0083: 1, H0239: 1, H0288: 1, H0412: 1, H0100: 1, T0042: 1, H0494: 1, S0144: 1, L0763: 1, L0766: 1, L0657: 1, L0659: 1, S0052: 1, S0428: 1, H0658: 1, S0328: 1, L0755: 1, H0543: 1 and H0707: 1.			
								AR089: 12, AR316: 11, AR060: 9 L0758: 9, S0412: 8, L0662: 6, L0749: 6, S0360: 5, H0038: 5, L0751: 5, S0356: 3, H0618: 3, S0051: 3, H0616: 3, L0666: 3, L0743: 3, L0439: 3, L0731: 3, H0295: 2, H0587: 2, H0135: 2, H0591: 2, L0769: 2, L0646: 2, L0774: 2, L0775: 2, L0659: 2, L0665: 2, H0672: 2, S0330: 2, H0539: 2, H0436: 2, L0754: 2, L0588: 2, L0605: 2, H0352: 2, T0002: 1, H0381: 1, S0116: 1, H0341: 1, H0638: 1, H0339: 1, L0717: 1, H0411: 1, H0441: 1, H0586: 1, H0333: 1, H0574: 1, S0280: 1, L0021: 1, H0575: 1, H0253: 1, S0101: 1, S0346: 1, S0049: 1, H0085: 1, L0471: 1, H0024: 1, H0071: 1, T0010: 1, H0239: 1, H0030: 1, H0031: 1, H0181: 1, H0032: 1, H0361: 1, H0598: 1, H0090: 1, H0100: 1, S0440: 1, H0529: 1, L0637: 1, L0772: 1, L0764: 1, L0771: 1			

2574	HWTAM38	602274	2584	377 - 598	5181	Pro-27 to Lys-32	<p>1, L0648: 1, L0521: 1, L0767: 1, L0766: 1, L0375: 1, L0378: 1, L0653: 1, L0657: 1, L0783: 1, L0544: 1, L0647: 1, H0435: 1, H0659: 1, H0658: 1, H0670: 1, H0660: 1, H0521: 1, H0696: 1, H0555: 1, H0478: 1, S0037: 1, S0027: 1, L0756: 1, L0777: 1, L0753: 1, H0445: 1, L0596: 1, L0591: 1, S0026: 1 and S0446: 1.</p>		
2575	HWTAW58	793424	2585	1523 - 1564	5182	Gly-1 to Lys-6	<p>L0771: 5, L0766: 3, H0031: 2, L0794: 2, L0599: 2, H0423: 2, H0265: 1, S0360: 1, T0008: 1, H0042: 1, H0318: 1, H0545: 1, H0014: 1, L0662: 1, L0804: 1, L0805: 1, S0216: 1, L0438: 1, H0659: 1, L0757: 1 and H0352: 1.</p> <p>AR089: 14, AR316: 11, AR060: 8</p> <p>L0747: 8, L0758: 8, L0748: 7, L0766: 5, L0776: 4, H0650: 3, H0657: 3, S0420: 3, H0581: 3, H0014: 3, H0670: 3, L0731: 3, S0192: 3, S0040: 2, H0341: 2, H0486: 2, H0575: 2, H0622: 2, H0646: 2, L0770: 2, L0662: 2, L0794: 2, L0666: 2, L0663: 2, H0435: 2, L0741: 2, L0743: 2, L0754: 2, L0752: 2, L0755: 2, L0599: 2, L0604: 2, L0361: 2, H0543: 2, H0170: 1, H0583: 1, S0212: 1, H0664: 1, S0358: 1, H0580: 1, S0007: 1, S0132: 1, H0645: 1, L0717: 1, H0437: 1, S6014: 1, H0431: 1, H0587: 1, H0642: 1, H0013: 1, H0052: 1, H0251: 1, L0040: 1, H0046: 1, H0123: 1, S0051: 1, H0510:</p>		

2576	HWTBB42	603089	2586	33 - 65	5183				1, H0375: 1, H0266: 1, H0615: 1, H0553: 1, H0644: 1, H0124: 1, S0036: 1, H0090: 1, H0040: 1, H0551: 1, H0334: 1, H0509: 1, H0633: 1, H0649: 1, S0422: 1, H0529: 1, L0369: 1, L0761: 1, L0646: 1, L0764: 1, L0648: 1, L0768: 1, L0649: 1, L0774: 1, L0805: 1, L0653: 1, L0606: 1, L0657: 1, L0659: 1, L0809: 1, L0530: 1, L0647: 1, L0791: 1, L0532: 1, L0665: 1, H0144: 1, H0702: 1, H0547: 1, S0126: 1, H0682: 1, H0539: 1, H0521: 1, H0555: 1, H0626: 1, S0206: 1, L0756: 1, H0665: 1, S0194: 1, S0452: 1 and H0352: 1.
2577	HWTBC75	835978	2587	228 - 362	5184	Arg-32 to Trip-42.			H0352: 1 AR089: 14, AR316: 11, AR060: 8 L0439: 14, L0438: 8, S0007: 7, L0803: 7, L0779: 7, L0794: 6, L0766: 6, L0748: 6, L0756: 6, L0731: 6, L0809: 5, L0747: 5, L0749: 5, L0485: 4, L0717: 3, L0805: 3, L0776: 3, L0789: 3, L0751: 3, L0777: 3, L0752: 3, L0759: 3, H0638: 2, S0346: 2, H0024: 2, S0003: 2, L0762: 2, L0770: 2, L0764: 2, L0655: 2, L0758: 2, L0592: 2, H0624: 1, H0170: 1, H0662: 1, S0360: 1, H0393: 1, L0394: 1, S0222: 1, H0486: 1, H0042: 1, H0575: 1, T0110: 1, H0546: 1, H0057: 1, S0051: 1, H0083: 1, S0214: 1, H0615: 1, H0622: 1, H0124: 1, H0163: 1, H0100: 1, H0561: 1, H0132: 1, L0446: 1, L0638: 1, L0662: 1, L0804: 1, L0774: 1.

2578	HWTB125	637736	2588	197 - 298	5185	Pro-27 to Tyr-33.	1, L0775: 1, L0657: 1, L0636: 1, L0367: 1, L0663: 1, H0520: 1, H0547: 1, S0126: 1, H0690: 1, H0658: 1, H0648: 1, S0328: 1, S0330: 1, H0521: 1, H0436: 1, L0750: 1, L0780: 1, L0755: 1, L0757: 1, H0445: 1, L0589: 1, L0593: 1, L0595: 1, L0366: 1, H0668: 1, H0665: 1, S0242: 1 and H0352: 1. AR060: 22, AR316: 19, AR089: 15 H0352: 2 and L0352: 1.	
2579	HWTB136	791720	2589	2270 - 2386	5186		AR089: 15, AR316: 13, AR060: 11 H0556: 8, L0439: 7, L0779: 7, L0766: 6, L0803: 6, H0013: 5, L0758: 4, H0624: 3, H0575: 3, L0774: 3, L0748: 3, H0265: 2, H0123: 2, H0622: 2, H0040: 2, L0761: 2, L0804: 2, L0805: 2, L0438: 2, H0547: 2, H0660: 2, L0751: 2, L0747: 2, L0749: 2, L0756: 2, L0777: 2, L0599: 2, L0361: 2, H0352: 2, H0171: 1, L0615: 1, H0686: 1, H0717: 1, S0134: 1, H0650: 1, H0657: 1, H0656: 1, S0418: 1, S0420: 1, S0358: 1, S0007: 1, H0208: 1, S0046: 1, H0351: 1, H0587: 1, H0486: 1, H0270: 1, L0021: 1, H0618: 1, S0010: 1, H0318: 1, H0581: 1, H0194: 1, H0086: 1, H0178: 1, H0563: 1, H0050: 1, H0024: 1, H0373: 1, T0010: 1, H0292: 1, H0615: 1, H0644: 1, H0135: 1, H0090: 1, H0591: 1, H0087: 1, H0380: 1, H0100: 1, L0564: 1, T0041: 1, L0770: 1, L0769: 1, L0800: 1, L0764: 1.	20

2580	HWTBX66	732187	2590	261 - 1076	5187	<p> Glu-27 to Lys-35, Arg-48 to Val-53, Ala-57 to Ala-69. </p>	<p> 1, L0521: 1, L0794: 1, L0649: 1, L0381: 1, L0775: 1, L0651: 1, L0378: 1, L0776: 1, L0655: 1, L0661: 1, L0657: 1, L0659: 1, L0789: 1, L0790: 1, L4501: 1, L0666: 1, S0126: 1, H0682: 1, H0658: 1, H0670: 1, S0328: 1, S0330: 1, H0521: 1, H0696: 1, S0404: 1, H0436: 1, S0012: 1, S0037: 1, L0743: 1, L0740: 1, L0754: 1, L0752: 1, L0759: 1, H0667: 1, S0194: 1, H0543: 1, H0423: 1 and S0424: 1. </p>
					2	<p> AR204: 220, AR205: 174, AR060: 161, AR244: 155, AR104: 155, AR243: 149, AR232: 149, AR192: 147, AR186: 142, AR185: 137, AR312: 134, AR274: 133, AR206: 132, AR246: 130, AR273: 129, AR299: 127, AR039: 125, AR177: 125, AR194: 120, AR313: 119, AR300: 118, AR179: 117, AR061: 115, AR175: 115, AR291: 114, AR295: 114, AR241: 113, AR096: 112, AR282: 111, AR052: 110, AR198: 108, AR251: 107, AR285: 106, AR286: 104, AR309: 104, AR316: 104, AR219: 104, AR284: 102, AR089: 101, AR266: 100, AR033: 100, AR289: 99, AR227: 99, AR184: 97, AR271: 97, AR233: 96, AR182: 95, AR202: 95, AR247: 94, AR256: 94, AR226: 92, AR298: 89, AR296: 88, AR294: 86. </p>	

							AR275: 86, AR259: 86, AR055: 85, AR053: 83, AR238: 82, AR240: 82, AR310: 80, AR218: 79, AR283: 78, AR213: 76, AR293: 75, AR229: 72, AR290: 70, AR234: 70, AR265: 70, AR267: 69, AR249: 68, AR263: 66, AR183: 66, AR268: 66, AR270: 65, AR277: 64, AR237: 64, AR258: 62, AR292: 60, AR269: 58, AR280: 56, AR315: 54, AR248: 54, AR253: 53, AR281: 50, AR314: 49, AR231: 49 S0468: 1, L0770: 1 and H0352: 1			
2581	HYAAC74	762843	2591	197 - 313	5188		H0583: 1, H0030: 1, H0135: 1, L0773: 1 and S0136: 1			
2582	HYAAD61	897736	2592	341 - 397	5189		H0583: 1			
2583	HYACC21	696654	2593	461 - 556	5190		AR060: 3, AR316: 2, AR089: 2 H0583: 1			
2584	HYBAP75	853561	2594	166 - 279	5191		AR060: 5, AR316: 4, AR089: 4 S0282: 10, H0594: 6, H0596: 5, H0592: 3, S0260: 3, H0595: 3, H0600: 2, H0041: 2, H0105: 2, S0388: 2, H0316: 2, H0598: 2, S0344: 2, S0390: 2, S0218: 1, H0411: 1, S0280: 1, H0590: 1, H0050: 1, H0553: 1, S0036: 1, H0529: 1, S0194: 1 and S0042: 1			
2585	HYBAQ24	898367	2595	261 - 467	5192	Clu-32 to Arg-38, Val-46 to Val-61.	H0586: 1, H0036: 1, H0041: 1, H0271: 1, H0622: 1, H0488: 1, H0509: 1 and S0434: 1			

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2586	HYBAW56	658736	2596	116 - 268	5193	Arg.21 to Lys.27.	AR089: 144, AR316: 101, AR060: 61 H0041: 1		
2587	HYBBD81	533784	2597	151 - 219	5194		H0041: 1		

[78] The first column in Table 1B provides the gene number in the application corresponding to the clone identifier. The second column in Table 1B provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1B. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods described elsewhere herein.

[79] The third column in Table 1B provides a unique "Contig ID" identification for each contig sequence. The fourth column provides the "SEQ ID NO:" identifier for each of the contig polynucleotide sequences disclosed in Table 1B. The fifth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1B, column 6, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.

[80] The sixth column in Table 1B provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 5. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.

[81] Column 7 in Table 1B lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-

Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1B. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[82] Column 8, in Table 1B, provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1B, which can routinely be combined with the information provided in Table 4 and used to determine the tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 8 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 8 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding

polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression.

[83] Column 9 in Table 1B provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[84] A modified version of the computer program BLASTN (Altshul, et al., J. Mol. Biol. 215:403-410 (1990), and Gish, and States, Nat. Genet. 3:266-272) (1993) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1B under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[85] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ ("Online Mendelian Inheritance in Man"; McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine (Bethesda, MD) 2000; World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>). If the putative chromosomal location of a polynucleotide of the invention (Query sequence)

was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 10, Table 1B, labelled "OMIM Disease Reference(s). Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

[86] Table 1C summarizes additional polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEQ ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).

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					10375-11270 11589-11678 15048-15690 16028-16134 18215-18476 20699-20733 23616-23861 30319-35764
H6BSM88	19	609832	AL355520	5221	1-386
H6BSM88	19	609832	AL355520	5222	1-437
H6EEA48	20	847111	AC011479	5223	1-252 298-434 597-678 805-867 1903-2229 2668-2872 3606-3709 4150-4555 4652-4816 4973-5096 5167-6102 6555-6585
H6EEA48	20	847111	AC011479	5224	1-246
H6EEU40	23	757048	AC026285	5225	1-414 440-1918
H6EEU40	23	757048	AC023920	5226	1-416 442-1920
H6EEU40	23	757048	AC026285	5227	1-1458 1729-1836
H6EEU40	23	757048	AC023920	5228	1-1459 1730-1837
H7TMB95	25	597427	AL133381	5229	1-491
H7TMB95	25	597427	AL133385	5230	1-491
HACAD42	27	634372	AC018512	5231	1-776
HACAD42	27	634372	AC022305	5232	1-878
HACAD42	27	634372	AC002518	5233	1-150
HACAD42	27	634372	AC016135	5234	1-845
HADAB60	33	745367	AC011498	5235	1-3168 3709-3896 4647-4876 5003-5294 5443-5552 5836-6190 6334-6407 7922-8433 9129-9255 9889-10202 10311-10385 10503-10664 12531-12600 12682-12801 15489-15696
HADAB60	33	745367	AC011498	5236	1-165 3986-4070 4146-4408
HADAB60	33	745367	AC011498	5237	1-385
HADAM31	34	604500	AC001084	5238	1-833
HADAM31	34	604500	AC008670	5239	1-833
HADAM31	34	604500	AC008670	5240	1-358
HADCL19	35	599065	AC027264	5241	1-147
HADCL19	35	599065	AL353663	5242	1-141

HADCL19	35	599065	AC023583	5243	1-183
HADCL19	35	599065	AC027584	5244	1-162
HADCL19	35	599065	AC023309	5245	1-193
HADCL19	35	599065	AC068682	5246	1-153
HADCL19	35	599065	AL356423	5247	1-203
HADCL19	35	599065	AC016142	5248	1-150
HADCL19	35	599065	AC023864	5249	1-142
HADCL19	35	599065	AC021466	5250	1-105
HADCL19	35	599065	AC000360	5251	1-142
HADCL19	35	599065	AC027584	5252	1-368
HADCL19	35	599065	AC023864	5253	1-1485 1590-4704
HADDC04	37	601695	AC025086	5254	1-2523
HADDC04	37	601695	AC036213	5255	1-2523
HADDC04	37	601695	AC025086	5256	1-186
HADDP23	38	847115	AL353606	5257	1-931
HADDP23	38	847115	AC022252	5258	1-931
HADDP23	38	847115	AL365360	5259	1-931
HADDR24	40	664477	AF047825	5260	1-1062
HADDR24	40	664477	AC005103	5261	1-1062
HADDR24	40	664477	AF047825	5262	1-124
HADDR24	40	664477	AF047825	5263	1-512
HADDR24	40	664477	AC005103	5264	1-512
HADDR24	40	664477	AC005103	5265	1-128
HADET62	41	607615	AL139187	5266	1-267 881-1219 3142-3948 5639-5823
HADET62	41	607615	AL139187	5267	1-355
HADEY22	43	704584	AC006159	5268	1-813 1374-1711 3195-3417 6590-6718 7485-7921 9403-9953 11546-12050 14701-15135 19748-20021 20944-21554 25746-26009 26183-26508 33951-36192
HADEY22	44	861628	AC006159	5269	1-813 1374-1711 3195-3417 6590-6718 7485-7921 9403-9953 11546-12050 14701-15135 19748-20021 20944-21554 25746-26009 26183-26508 33951-36192
HADFB84	45	668229	AC034117	5270	1-3119
HADFB84	45	668229	AC034117	5271	1-216
HADFD01	46	829979	AL139423	5272	1-1542
HADFD01	46	829979	AL139423	5273	1-856
HADFK11	48	637485	Z97353	5274	1-1044

HADFK11	48	637485	Z97353	5275	1-286
HADFT44	49	793100	AC010789	5276	1-67 205-268 557-1982
HADFT44	49	793100	AC016774	5277	1-67 205-268 557-1982
HADFT44	49	793100	AC010789	5278	1-302
HADFT44	49	793100	AC010789	5279	1-544
HADFT44	49	793100	AC016774	5280	1-544
HADFT44	49	793100	AC016774	5281	1-302
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HOGAB51	1827	825278	AL133243	9950	1-428
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HOGAR71	1831	722242	AC003688	9953	1-129 333-511 724-1378 1537-1711 2053-2380 2462-4615 4804-4895 5780-5921 5987-6081 6161-6346 7222-7325 7406-7948 8176-8617 8740-8996 9225-9487 10200-10282 10370-10431 10603-10956 11118-11146
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HOUDB17	1857	603417	AC027808	9981	1-698
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HOUDX40	1858	603442	AC020629	9983	1-1609
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HPFDB66	1900	829318	AL133353	10166	1-200 456-609 5860-5998 6526-6629 8425-8724 9151-9625 12117-12252 15026-15571 15654-16121 16221-16852 19264-19592 21596-21794 22707-22795 23248-23407 23487-23890 25183-26429 26561-27890 28380-28908 28953-29430 29490-32385 32577-35455 36789-37427 37736-38206 38250-38308 38867-39048 39075-39236 39491-39811 39971-40302 40401-40871 41105-41186 41719-41801

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					1629-1745
					1845-2373
HWLJN08	2582	800626	AL133410	13025	1-317
HWLRE03	2583	831198	AL137127	13026	1-1312
					1694-1887
					2193-2303
					3471-3710
					4156-4443
					5038-5161
					5278-5407
					5941-6584
					7241-7367
					8276-8367
					8643-8727
					8884-8972
					12156-12269
					12380-12542
					13269-13380
					13916-14061
					14441-14518
					14846-15027
					17451-17589
					18535-18807
					19429-19512
					19996-20578
					21826-21915
					22456-22588
					22670-22898
					23235-23564
					24082-24203

					24967-25164 25619-25795 26190-26291 29131-29321 30128-30350 31178-31292 32281-32431 32835-32963 34408-34604 34727-35204 35213-35555 37452-37817 37970-39081 39436-39934 40255-40608 40662-41132 42203-42572 43008-43552 43569-43940 44108-44602
HWLRE03	2583	831198	AL137127	13027	1-535 1104-1316 2656-3225 4701-4928 5419-5827 6327-6571 7412-7575
HWLRE03	2583	831198	AL137127	13028	1-795 1092-1656
HWTAM38	2584	602274	AL022067	13029	1-387 545-678 2026-2359 3509-3960 4010-4450 4530-4983 5870-6310 9032-10350 10759-10891 11299-14328
HWTAM38	2584	602274	AL358952	13030	1-387 545-678 2026-2359 3509-3960 4010-4450 4530-4983 5870-6310 9032-10350 10759-10891 11299-14328
HWTAM38	2584	602274	AL358952	13031	1-1374
HWTAW58	2585	793424	AP001788	13032	1-2438 2985-3122 3292-3331
HWTBB42	2586	603089	AC004985	13033	1-3368 5233-5368 5704-6290 6611-6907 7462-8059 8235-8791 9202-10273 11514-11585
HWTBB42	2586	603089	AC004985	13034	1-281

HWTBC75	2587	855978	AC004148	13035	521-1115
					1-143
					475-660
					1809-2483
					2821-3022
					3806-3998
					4221-4620
					4869-4922
					5992-6387
					7052-7155
					7158-7479
					8079-8629
					8782-8957
					9190-13052
					13185-13567
					13674-13804
					14077-15084
					15153-15280
					15368-15653
					16284-16487
					16795-17209
					17560-17939
					17941-18053
					18172-18605
					21583-21675
					22758-22902
					23276-23551
					25577-25753
					26239-26344
					27467-27902
					30042-30160
					30791-30942
					31749-31937
					33498-33672
					33901-34149
					35192-35808
					35836-36088
					36123-36451
					37394-37483
					40700-40833
					40959-41042
					42608-42702
					42715-42870
					43205-43377
					45707-46983
					47985-48160
					48714-49177
					49458-50604
					51183-51797
					52218-52991
					53428-54181
					54760-54930
					55060-55572
					56432-57573
					57577-58182
					58199-59928
					59984-60233
					60359-60461
					61203-61440
					61565-61660
					62439-62581
					62696-63159

					64815-65163 65529-65854
HWTBC75	2587	855978	AC004148	13036	1-1611
HWTBI25	2588	637736	AC066603	13037	1-695
HWTBI25	2588	637736	AC066603	13038	1-510
HWTBL86	2589	791720	AL034550	13039	1-4073
HYAAC74	2591	762843	AC013276	13040	1-1227
HYAAC74	2591	762843	AC013276	13041	1-635
HYBAQ24	2595	898367	AC018552	13042	1-96 289-617 1256-1542 2572-4992
HYBAQ24	2595	898367	AC018552	13043	1-103 242-356 479-1465 3671-3861
HYBAQ24	2595	898367	AC018552	13044	1-148
HYBBD81	2597	533784	AC015779	13045	1-302 692-1498 2237-2673
HYBBD81	2597	533784	AC013603	13046	1-302 692-1498 2237-2673 5316-5528 6508-7733

[87] **Table 1D:** The polynucleotides or polypeptides, or agonists or antagonists of the present invention can be used in assays to test for one or more biological activities. If these polynucleotides and polypeptides do exhibit activity in a particular assay, it is likely that these molecules may be involved in the diseases associated with the biological activity. Thus, the polynucleotides or polypeptides, or agonists or antagonists could be used to treat the associated disease.

[88] The present invention encompasses methods of preventing, treating, diagnosing, or ameliorating a disease or disorder. In preferred embodiments, the present invention encompasses a method of treating a disease or disorder listed in the "Preferred Indications" column of Table 1D; comprising administering to a patient in which such treatment, prevention, or amelioration is desired a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) in an amount effective to treat, prevent, diagnose, or ameliorate the disease or disorder. The first and second columns of Table 1D show the "Gene No." and "cDNA Clone ID No.", respectively, indicating certain nucleic acids and proteins (or antibodies against the same) of the invention (including polynucleotide, polypeptide, and antibody fragments or variants thereof) that may be used in preventing, treating, diagnosing, or ameliorating the disease(s) or disorder(s) indicated in the corresponding row in Column 3 of Table 1D.

[89] In another embodiment, the present invention also encompasses methods of preventing, treating, diagnosing, or ameliorating a disease or disorder listed in the "Preferred Indications" column of Table 1D; comprising administering to a patient combinations of the proteins, nucleic acids, or antibodies of the invention (or fragments or variants thereof), sharing similar indications as shown in the corresponding rows in Column 3 of Table 1D.

[90] The “Preferred Indication” column describes diseases, disorders, and/or conditions that may be treated, prevented, diagnosed, or ameliorated by a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof).

[91] The recitation of "Cancer" in the "Preferred Indication" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof) may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., leukemias, cancers, and/or as described below under "Hyperproliferative Disorders").

[92] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a “Cancer” recitation in the “Preferred Indication” column of Table 1D may be used for example, to diagnose, treat, prevent, and/or ameliorate a neoplasm located in a tissue selected from the group consisting of: colon, abdomen, bone, breast, digestive system, liver, pancreas, prostate, peritoneum, lung, blood (e.g., leukemia), endocrine glands (adrenal, parathyroid, pituitary, testicles, ovary, thymus, thyroid), uterus, eye, head and neck, nervous (central and peripheral), lymphatic system, pelvic, skin, soft tissue, spleen, thoracic, and urogenital.

[93] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a “Cancer” recitation in the “Preferred Indication” column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a pre-neoplastic condition, selected from the group consisting of: hyperplasia (e.g., endometrial hyperplasia and/or as described in the section entitled “Hyperproliferative Disorders”), metaplasia (e.g., connective tissue metaplasia, atypical metaplasia, and/or as described in the section entitled “Hyperproliferative Disorders”), and/or dysplasia (e.g., cervical dysplasia, and bronchopulmonary dysplasia).

[94] In another specific embodiment, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a “Cancer” recitation in the “Preferred Indication” column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a benign dysproliferative disorder selected from the group consisting of:

benign tumors, fibrocystic conditions, tissue hypertrophy, and/or as described in the section entitled "Hyperproliferative Disorders".

[95] The recitation of "Immune/Hematopoietic" in the "Preferred Indication" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders"), blood disorders (e.g., as described below under "Immune Activity" "Cardiovascular Disorders" and/or "Blood-Related Disorders"), and infections (e.g., as described below under "Infectious Disease").

[96] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having the "Immune/Hematopoietic" recitation in the "Preferred Indication" column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: anemia, pancytopenia, leukopenia, thrombocytopenia, leukemias, Hodgkin's disease, non-Hodgkin's lymphoma, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, asthma, AIDS, autoimmune disease, rheumatoid arthritis, granulomatous disease, immune deficiency, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, immune reactions to transplanted organs and tissues, systemic lupus erythematosus, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, and allergies.

[97] The recitation of "Reproductive" in the "Preferred Indication" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders"), and disorders of the reproductive system (e.g., as described below under "Reproductive System Disorders").

[98] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a "Reproductive" recitation in the "Preferred Indication" column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: cryptorchism, prostatitis, inguinal hernia, varicocele, leydig cell tumors, verrucous carcinoma, prostatitis, malacoplakia, Peyronie's disease, penile carcinoma, squamous cell hyperplasia, dysmenorrhea, ovarian adenocarcinoma, Turner's syndrome, mucopurulent cervicitis, Sertoli-leydig tumors, ovarian cancer, uterine cancer, pelvic inflammatory

and/or ameliorate a disease or disorder selected from the group consisting of: myxomas, fibromas, rhabdomyomas, cardiovascular abnormalities (e.g., congenital heart defects, cerebral arteriovenous malformations, septal defects), heart disease (e.g., heart failure, congestive heart disease, arrhythmia, tachycardia, fibrillation, pericardial Disease, endocarditis), cardiac arrest, heart valve disease (e.g., stenosis, regurgitation, prolapse), vascular disease (e.g., hypertension, coronary artery disease, angina, aneurysm, arteriosclerosis, peripheral vascular disease), hyponatremia, hypernatremia, hypokalemia, and hyperkalemia.

[103] The recitation of "Mixed Fetal" in the "Preferred Indication" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders").

[104] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a "Mixed Fetal" recitation in the "Preferred Indication" column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: spina bifida, hydranencephaly, neurofibromatosis, fetal alcohol syndrome, diabetes mellitus, PKU, Down's syndrome, Patau syndrome, Edwards syndrome, Turner syndrome, Apert syndrome, Carpenter syndrome, Conradi syndrome, Crouzon syndrome, cutis laxa, Cornelia de Lange syndrome, Ellis-van Creveld syndrome, Holt-Oram syndrome, Kartagener syndrome, Meckel-Gruber syndrome, Noonan syndrome, Pallister-Hall syndrome, Rubinstein-Taybi syndrome, Scimitar syndrome, Smith-Lemli-Opitz syndrome, thrombocytopenia-absent radius (TAR) syndrome, Treacher Collins syndrome, Williams syndrome, Hirschsprung's disease, Meckel's diverticulum, polycystic kidney disease, Turner's syndrome, and gonadal dysgenesis, Klippel-Feil syndrome, Ostogenesis imperfecta, muscular dystrophy, Tay-Sachs disease, Wilm's tumor, neuroblastoma, and retinoblastoma.

[105] The recitation of "Excretory" in the "Preferred Indication" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders") and renal disorders (e.g., as described below under "Renal Disorders").

[113] The recitation of "Digestive" in the "Preferred Indication" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders") and diseases or disorders of the gastrointestinal system (e.g., as described below under "Gastrointestinal Disorders").

[114] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a "Digestive" recitation in the "Preferred Indication" column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: ulcerative colitis, appendicitis, Crohn's disease, hepatitis, hepatic encephalopathy, portal hypertension, cholelithiasis, cancer of the digestive system (e.g., biliary tract cancer, stomach cancer, colon cancer, gastric cancer, pancreatic cancer, cancer of the bile duct, tumors of the colon (e.g., polyps or cancers), and cirrhosis), pancreatitis, ulcerative disease, pyloric stenosis, gastroenteritis, gastritis, gastric atrophy, benign tumors of the duodenum, distension, irritable bowel syndrome, malabsorption, congenital disorders of the small intestine, bacterial and parasitic infection, megacolon, Hirschsprung's disease, aganglionic megacolon, acquired megacolon, colitis, anorectal disorders (e.g., anal fistulas, hemorrhoids), congenital disorders of the liver (e.g., Wilson's disease, hemochromatosis, cystic fibrosis, biliary atresia, and alpha1-antitrypsin deficiency), portal hypertension, cholelithiasis, and jaundice.

[115] The recitation of "Connective/Epithelial" in the "Preferred Indication" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders"), cellular and genetic abnormalities (e.g., as described below under "Diseases at the Cellular Level"), angiogenesis (e.g., as described below under "Anti-Angiogenesis Activity"), and or to promote or inhibit regeneration (e.g., as described below under "Regeneration"), and wound healing (e.g., as described below under "Wound Healing and Epithelial Cell Proliferation").

[116] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a "Connective/Epithelial" recitation in the "Preferred Indication" column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: connective

tissue metaplasia, mixed connective tissue disease, focal epithelial hyperplasia, epithelial metaplasia, mucoepithelial dysplasia, graft v. host disease, polymyositis, cystic hyperplasia, cerebral dysplasia, tissue hypertrophy, Alzheimer's disease, lymphoproliferative disorder, Waldenström's macroglobulinemia, Crohn's disease, pernicious anemia, idiopathic Addison's disease, glomerulonephritis, bullous pemphigoid, Sjögren's syndrome, diabetes mellitus, cystic fibrosis, osteoblastoma, osteoclastoma, osteosarcoma, chondrosarcoma, osteoporosis, osteoarthritis, periodontal disease, wound healing, relapsing polychondritis, vasculitis, polyarteritis nodosa, Wegener's granulomatosis, cellulitis, rheumatoid arthritis, psoriatic arthritis, discoid lupus erythematosus, systemic lupus erythematosus, scleroderma, CREST syndrome, Sjögren's syndrome, polymyositis, dermatomyositis, mixed connective tissue disease, relapsing polychondritis, vasculitis, Henoch-Schönlein syndrome, erythema nodosum, polyarteritis nodosa, temporal (giant cell) arteritis, Takayasu's arteritis, Wegener's granulomatosis, Reiter's syndrome, Behçet's syndrome, ankylosing spondylitis, cellulitis, keloids, Ehler Danlos syndrome, Marfan syndrome, pseudoxanthoma elasticum, osteogenesis imperfecta, chondrodysplasias, epidermolysis bullosa, Alport syndrome, and cutis laxa.

TABLE 1D

Gene No.	Clone ID	Preferred Indication
1	H2CBD20	Digestive
2	H2CBH91	Cancer
3	H2LBA54	Cancer
4	H2LBB09	Cancer
5	H2LBB09	Cancer
6	H2MAC63	Digestive, Reproductive
7	H2MBA76	Cancer
8	H2MBF60	Cancer
9	H6BSM88	Cancer
10	H6EEA48	Cancer
11	H6EEN71	Cancer
12	H6EE005	Cancer
13	H6EEU40	Cancer
14	H7TDB54	Cancer
15	H7TMB95	Cancer
16	HAAAT06	Cancer
17	HACAD42	Connective/Epithelial, Mixed Fetal, Neural/Sensory
18	HACBJ11	Cancer
19	HACBS86	Cancer
20	HACBT91	Cancer
21	HACBZ73	Cancer

22	HACCK29	Connective/Epithelial
23	HADAB60	Cancer
24	HADAM31	Connective/Epithelial
25	HADCL19	Connective/Epithelial
26	HADCZ65	Connective/Epithelial, Immune/Hematopoietic
27	HADDC04	Connective/Epithelial, Reproductive
28	HADDP23	Cancer
29	HADDP51	Cancer
30	HADDR24	Cancer
31	HADET62	Connective/Epithelial
32	HADEY08	Cancer
33	HADEY22	Connective/Epithelial
34	HADEY22	Connective/Epithelial
35	HADFB84	Cancer
36	HADFD01	Cancer
37	HADFD10	Cancer
38	HADFK11	Connective/Epithelial
39	HADFT44	Connective/Epithelial, Mixed Fetal, Neural/Sensory
40	HADFW20	Connective/Epithelial
41	HADFX10	Connective/Epithelial, Neural/Sensory
42	HADFY80	Connective/Epithelial, Digestive
43	HADGD93	Cardiovascular, Connective/Epithelial
44	HADMA77	Cancer
45	HADXA10	Cancer
46	HADXA10	Cancer
47	HAFBB15	Cancer
48	HAFBL14	Cancer
49	HAGAB62	Cancer
50	HAGAB83	Neural/Sensory
51	HAGAE84	Neural/Sensory
52	HAGAF75	Digestive, Neural/Sensory
53	HAGAK40	Cancer
54	HAGAU43	Neural/Sensory
55	HAGAZ36	Neural/Sensory
56	HAGBC57	Cancer
57	HAGBL31	Neural/Sensory
58	HAGBO09	Mixed Fetal, Neural/Sensory
59	HAGBO12	Neural/Sensory
60	HAGBO51	Neural/Sensory
61	HAGBS89	Immune/Hematopoietic, Musculoskeletal, Neural/Sensory
62	HAGBV06	Cancer
63	HAGBV25	Cancer
64	HAGBV29	Immune/Hematopoietic, Neural/Sensory
65	HAGCC87	Digestive, Immune/Hematopoietic, Neural/Sensory
66	HAGCH67	Neural/Sensory

67	HAGCI69	Neural/Sensory, Reproductive
68	HAGCT33	Immune/Hematopoietic, Mixed Fetal, Neural/Sensory
69	HAGCZ70	Neural/Sensory
70	HAGDC73	Cancer
71	HAGDG84	Immune/Hematopoietic, Neural/Sensory
72	HAGDH85	Neural/Sensory
73	HAGDI69	Neural/Sensory
74	HAGDI53	Immune/Hematopoietic, Neural/Sensory
75	HAGDI56	Cardiovascular, Endocrine, Neural/Sensory
76	HAGDL51	Immune/Hematopoietic, Musculoskeletal, Neural/Sensory
77	HAGDO70	Cancer
78	HAGDT30	Cancer
79	HAGDW68	Endocrine, Neural/Sensory
80	HAGDX84	Cancer
81	HAGEK37	Cancer
82	HAGEK86	Cancer
83	HAGEP30	Neural/Sensory
84	HAGEQ58	Neural/Sensory
85	HAGEQ67	Cancer
86	HAGEU26	Neural/Sensory
87	HAGEW83	Neural/Sensory
88	HAGEX49	Cancer
89	HAGEX49	Cancer
90	HAGFD75	Cancer
91	HAGFF43	Cancer
92	HAGFJ67	Digestive, Immune/Hematopoietic, Neural/Sensory
93	HAGFM58	Cardiovascular, Neural/Sensory
94	HAGFT48	Cancer
95	HAGFU31	Neural/Sensory
96	HAGFW13	Neural/Sensory
97	HAGHE85	Cardiovascular, Neural/Sensory
98	HAGHR18	Neural/Sensory
99	HAGIB90	Cancer
100	HAHEM51	Cardiovascular
101	HAHSA76	Cardiovascular
102	HAHSD51	Cancer
103	HAIBR76	Cancer
104	HAIBT20	Cancer
105	HAIBV91	Cancer
106	HAICE62	Cancer
107	HAICL90	Digestive, Immune/Hematopoietic, Reproductive
108	HAICV44	Cancer
109	HAIDP45	Cancer

110	HAJAB88	Cancer
111	HAJAZ56	Cancer
112	HAMFC67	Cancer
113	HAMFQ38	Cancer
114	HAMGG01	Cancer
115	HANGB24	Cancer
116	HANKC93	Musculoskeletal
117	HAPAD35	Cancer
118	HAPBR13	Cancer
119	HAPBU09	Cancer
120	HAPBU86	Cancer
121	HAPBU86	Cancer
122	HAPNJ33	Cancer
123	HAPNL62	Cancer
124	HAPNO50	Cancer
125	HAPNY10	Cancer
126	HAPPW83	Cancer
127	HAPQJ73	Cancer
128	HAPQK26	Reproductive
129	HAPQU71	Cancer
130	HAPQU71	Cancer
131	HAPQW18	Cancer
132	HAPQX44	Cancer
133	HAPRK55	Cancer
134	HAPSH37	Cancer
135	HAQBG57	Cancer
136	HAQBY85	Cancer
137	HAQBZ15	Cancer
138	HAQCE18	Immune/Hematopoietic, Reproductive
139	HAQCF94	Cancer
140	HARAE26	Neural/Sensory
141	HARAT69	Cancer
142	HARAZ81	Cancer
143	HASAU26	Cancer
144	HASAX57	Cancer
145	HASAY07	Cancer
146	HATAE01	Cancer
147	HATAG52	Endocrine, Neural/Sensory, Reproductive
148	HATAL05	Cancer
149	HATBA90	Endocrine
150	HATBM71	Endocrine
151	HATCF80	Cancer
152	HATCI67	Cancer
153	HATCJ27	Cancer
154	HATCS79	Endocrine, Immune/Hematopoietic
155	HATCX03	Cancer
156	HATDE03	Cancer
157	HATDF41	Cancer
158	HATDH23	Cancer
159	HATDH55	Cancer
160	HATDO84	Endocrine
161	HATDU01	Cancer
162	HATDW05	Endocrine
163	HATEF13	Digestive,

		Endocrine
164	HATEF64	Cancer
165	HATEH40	Cancer
166	HATEI22	Cancer
167	HAUCC84	Cancer
168	HAWAS41	Connective/Epithelial, Excretory, Immune/Hematopoietic
169	HAWBA65	Cancer
170	HBAGH64	Cancer
171	HBAGV01	Connective/Epithelial, Excretory
172	HBAMC50	Excretory
173	HBAMC57	Excretory
174	HBBA42	Cancer
175	HBBBB08	Neural/Sensory
176	HBBBE83	Cancer
177	HBBMA11	Neural/Sensory
178	HBCAK10	Digestive, Immune/Hematopoietic, Reproductive
179	HBCAK80	Cancer
180	HBCAQ48	Cancer
181	HBWAY17	Cancer
182	HBCGE46	Musculoskeletal
183	HBGBA14	Cardiovascular, Digestive, Reproductive
184	HBGBE75	Cancer
185	HBGBP22	Cancer
186	HBGFQ34	Reproductive
187	HBGML95	Reproductive
188	HBGMT60	Cancer
189	HBHAA53	Neural/Sensory
190	HBIAU43	Cancer
191	HBIAW58	Neural/Sensory
192	HBIBB20	Cancer
193	HBIBF26	Cancer
194	HBIBM33	Neural/Sensory
195	HBIBN67	Cancer
196	HBIBQ69	Immune/Hematopoietic, Neural/Sensory
197	HBIBR38	Neural/Sensory
198	HBIBR61	Cancer
199	HBIBS33	Neural/Sensory
200	HBIBT13	Digestive, Immune/Hematopoietic, Neural/Sensory
201	HBIBZ20	Neural/Sensory
202	HBICB80	Cancer
203	HBJAC40	Cancer
204	HBJAV56	Immune/Hematopoietic, Musculoskeletal
205	HBJAY14	Immune/Hematopoietic
206	HBJBQ69	Immune/Hematopoietic
207	HBJBR40	Immune/Hematopoietic
208	HBJCH46	Immune/Hematopoietic, Musculoskeletal
209	HBJCR17	Cancer

210	HBICS26	Cancer
211	HBJCW24	Cancer
212	HBJDC57	Immune/Hematopoietic, Reproductive
213	HBJDR18	Immune/Hematopoietic
214	HBJDR83	Immune/Hematopoietic
215	HBJEE51	Immune/Hematopoietic
216	HBJEL21	Cancer
217	HBJFH84	Cancer
218	HBJFJ14	Cancer
219	HBJFJ26	Cancer
220	HBJFJ83	Immune/Hematopoietic, Mixed Fetal
221	HBJFJ83	Immune/Hematopoietic, Mixed Fetal
222	HBJFP47	Immune/Hematopoietic, Reproductive
223	HBJFR77	Cancer
224	HBJFU30	Cancer
225	HBJFX41	Immune/Hematopoietic
226	HBJHO83	Immune/Hematopoietic, Reproductive
227	HBJHS92	Immune/Hematopoietic, Neural/Sensory
228	HBJHT01	Immune/Hematopoietic, Reproductive
229	HBJHT01	Immune/Hematopoietic, Reproductive
230	HBJHW06	Immune/Hematopoietic, Reproductive
231	HBJIR14	Cancer
232	HBJJA26	Immune/Hematopoietic
233	HBJIX02	Immune/Hematopoietic
234	HBJLH78	Immune/Hematopoietic
235	HBJND04	Cancer
236	HBJND57	Immune/Hematopoietic
237	HBKDF66	Cancer
238	HBKEA94	Cancer
239	HBKEE60	Digestive
240	HBKEI41	Endocrine, Mixed Fetal, Reproductive
241	HBMBD51	Digestive, Immune/Hematopoietic
242	HBMBD73	Cancer
243	HBMBE33	Immune/Hematopoietic
244	HBMBM17	Immune/Hematopoietic, Reproductive
245	HBMCL59	Immune/Hematopoietic
246	HBMCM96	Immune/Hematopoietic, Neural/Sensory
247	HBMCQ74	Cancer
248	HBMCQ74	Cancer
249	HBMCT40	Cancer
250	HBMDM08	Immune/Hematopoietic
251	HBMSN62	Cancer
252	HBMSO30	Immune/Hematopoietic
253	HBMTM50	Cancer
254	HBMUD59	Cancer

255	HBMUI10	Cancer
256	HBMUJ48	Cancer
257	HBMUR39	Immune/Hematopoetic
258	HBMVF65	Endocrine, Immune/Hematopoetic, Neural/Sensory
259	HBMVF65	Endocrine, Immune/Hematopoetic, Neural/Sensory
260	HBMWC39	Cancer
261	HBMWJ92	Cancer
262	HBMWS52	Immune/Hematopoetic
263	HBMXE34	Cancer
264	HBMXG01	Immune/Hematopoetic
265	HBMXG76	Immune/Hematopoetic
266	HBMXM05	Excretory, Immune/Hematopoetic, Neural/Sensory
267	HBMXW83	Cancer
268	HBNAE74	Excretory, Musculoskeletal, Reproductive
269	HBNAI16	Cancer
270	HBNAZ35	Endocrine, Reproductive
271	HBODK40	Cancer
272	HBODV76	Cancer
273	HBPAD89	Cancer
274	HBPAP39	Immune/Hematopoetic, Neural/Sensory
275	HBQAC45	Neural/Sensory
276	HBQAC72	Neural/Sensory
277	HBQAE37	Neural/Sensory
278	HBSAJ63	Cancer
279	HBSAJ63	Cancer
280	HBSDD24	Cancer
281	HBWBD25	Immune/Hematopoetic, Neural/Sensory
282	HBXAS93	Neural/Sensory
283	HBXAT27	Cancer
284	HBXAW57	Neural/Sensory
285	HBXBI29	Neural/Sensory
286	HBXBM24	Neural/Sensory
287	HBXBM78	Cancer
288	HBXCD59	Immune/Hematopoetic, Neural/Sensory
289	HBXCE43	Neural/Sensory
290	HBXCG08	Cancer
291	HBXCM52	Cancer
292	HBXCQ03	Cancer
293	HBXCR15	Cancer
294	HBXDL52	Cancer
295	HBXDL52	Cancer
296	HBXDN08	Cancer
297	HBXDN65	Neural/Sensory
298	HBXFA04	Neural/Sensory
299	HBXFE64	Neural/Sensory
300	HBXFI33	Immune/Hematopoetic, Neural/Sensory

344	HCE3D89	Endocrine, Neural/Sensory
345	HCE3J43	Cancer
346	HCE3L04	Neural/Sensory
347	HCE3N23	Cancer
348	HCE3R01	Cancer
349	HCE3R01	Cancer
350	HCE3R01	Cancer
351	HCE3R46	Cancer
352	HCE4H32	Cancer
353	HCE4H32	Cancer
354	HCE4T64	Cancer
355	HCE4W88	Cancer
356	HCE5B62	Neural/Sensory
357	HCE5H86	Cancer
358	HCE5J64	Digestive, Neural/Sensory
359	HCEBF54	Cancer
360	HCECO77	Cancer
361	HCEDH42	Neural/Sensory
362	HCEDJ05	Neural/Sensory
363	HCEDJ26	Cancer
364	HCEDN07	Digestive, Mixed Fetal, Neural/Sensory
365	HCEDO17	Cancer
366	HCEEG48	Neural/Sensory
367	HCEEM33	Cancer
368	HCEEP16	Immune/Hematopoietic, Neural/Sensory, Reproductive
369	HCEER60	Cardiovascular, Digestive, Neural/Sensory
370	HCEFA10	Immune/Hematopoietic, Neural/Sensory, Reproductive
371	HCEFA50	Neural/Sensory
372	HCEFA94	Neural/Sensory
373	HCEFC27	Cancer
374	HCEFG93	Neural/Sensory
375	HCEFH31	Cancer
376	HCEFK56	Cancer
377	HCEFN51	Cancer
378	HCEGG08	Cancer
379	HCEGH74	Cancer
380	HCEGK81	Cancer
381	HCEGS49	Connective/Epithelial, Neural/Sensory, Reproductive
382	HCEGU75	Cancer
383	HCEGY33	Cancer
384	HCEHW24	Neural/Sensory
385	HCEJL08	Cancer
386	HCEJP93	Cancer
387	HCELB04	Cancer
388	HCEMA08	Cancer
389	HCENN67	Digestive, Endocrine,

		Neural/Sensory
390	HCENQ22	Digestive, Immune/Hematopoietic, Neural/Sensory
391	HCEOF01	Neural/Sensory, Reproductive
392	HCEOF01	Neural/Sensory, Reproductive
393	HCEON94	Immune/Hematopoietic, Neural/Sensory, Reproductive
394	HCEQ67	Cancer
395	HCEOV48	Cancer
396	HCEPC90	Neural/Sensory
397	HCEPO08	Cancer
398	HCESB03	Immune/Hematopoietic, Neural/Sensory
399	HCESK44	Cancer
400	HCETE08	Mixed Fetal, Neural/Sensory, Reproductive
401	HCETL19	Immune/Hematopoietic, Neural/Sensory, Reproductive
402	HCEWD90	Cancer
403	HCEWE62	Neural/Sensory
404	HCEZW14	Cancer
405	HCFAT42	Immune/Hematopoietic
406	HCFAT66	Immune/Hematopoietic
407	HCFBA30	Cardiovascular, Immune/Hematopoietic, Reproductive
408	HCFBM77	Immune/Hematopoietic
409	HCFBV39	Cancer
410	HCFGB72	Immune/Hematopoietic
411	HCFCG91	Cancer
412	HCFCM81	Digestive, Immune/Hematopoietic, Reproductive
413	HCFCW39	Cancer
414	HCFCY49	Cancer
415	HCFDD18	Digestive, Immune/Hematopoietic, Mixed Fetal
416	HCFLB10	Cardiovascular, Immune/Hematopoietic
417	HCFLC03	Cancer
418	HCFLJ52	Cancer
419	HCFLJ33	Immune/Hematopoietic, Reproductive
420	HCFLP48	Immune/Hematopoietic
421	HCFLQ12	Cancer
422	HCFLY20	Cancer
423	HCFLY20	Cancer
424	HCFMA39	Immune/Hematopoietic
425	HCFMJ40	Immune/Hematopoietic
426	HCFML07	Cancer
427	HCFMR75	Digestive, Immune/Hematopoietic

428	HCFMX16	Immune/Hematopoietic
429	HCFMX88	Immune/Hematopoietic, Neural/Sensory
430	HCFNM40	Digestive, Immune/Hematopoietic, Reproductive
431	HCFNM50	Immune/Hematopoietic
432	HCFNN16	Cancer
433	HCFNN75	Cancer
434	HCFOG17	Immune/Hematopoietic
435	HCFOH93	Immune/Hematopoietic, Reproductive
436	HCGBA15	Cancer
437	HCHAC68	Cancer
438	HCHBP49	Cancer
439	HCHCA79	Digestive, Neural/Sensory, Reproductive
440	HCHCG33	Cancer
441	HCHMY57	Cancer
442	HCHOC06	Reproductive
443	HCHOY52	Cancer
444	HCHQB93	Cancer
445	HCHQB93	Cancer
446	HCLBK61	Cancer
447	HCLCU75	Respiratory
448	HCMSA37	Cardiovascular
449	HCMSR07	Cardiovascular
450	HCNA174	Digestive
451	HCNCT01	Digestive
452	HCNDR39	Cancer
453	HCNSD91	Cancer
454	HCNSF01	Cancer
455	HCNSG06	Digestive, Reproductive
456	HCNSG32	Digestive, Reproductive
457	HCPAE41	Cancer
458	HCQAK36	Cancer
459	HCQAK47	Cancer
460	HCQAS72	Cancer
461	HCQBM95	Digestive, Immune/Hematopoietic
462	HCQCM95	Cancer
463	HCQCM95	Cancer
464	HCQCV23	Cancer
465	HCQCV23	Cancer
466	HCQDD32	Digestive, Immune/Hematopoietic, Reproductive
467	HCQDD61	Digestive, Immune/Hematopoietic
468	HCQDT67	Cancer
469	HCRAI29	Neural/Sensory
470	HCRBI79	Cancer
471	HCRBL20	Cancer
472	HCRBX84	Cancer
473	HCRMA24	Digestive, Musculoskeletal

		Mixed Fetal
523	HCWHT52	Immune/Hematopoietic
524	HCWKO32	Immune/Hematopoietic
525	HCWLE50	Immune/Hematopoietic
526	HCWUF93	Cancer
527	HCWUW24	Immune/Hematopoietic
528	HCYBA32	Cancer
529	HDAAV67	Musculoskeletal, Neural/Sensory
530	HDABR74	Cancer
531	HDABW45	Immune/Hematopoietic, Musculoskeletal
532	HDACJ52	Cancer
533	HDCBM09	Immune/Hematopoietic
534	HDFA86	Mixed Fetal, Neural/Sensory
535	HDFIB37	Connective/Epithelial, Neural/Sensory
536	HDFMB91	Neural/Sensory
537	HDHAA55	Immune/Hematopoietic, Neural/Sensory
538	HDHEA33	Cancer
539	HDHEB12	Immune/Hematopoietic, Neural/Sensory
540	HDHEB80	Neural/Sensory
541	HDHIA16	Cancer
542	HDHIA26	Neural/Sensory
543	HDHMA71	Cancer
544	HDLAL94	Cancer
545	HDPAB86	Cancer
546	HDPAE80	Cancer
547	HDPAQ86	Digestive, Immune/Hematopoietic, Neural/Sensory
548	HDPBD56	Cancer
549	HDPBN48	Digestive, Immune/Hematopoietic
550	HDPCG79	Digestive, Immune/Hematopoietic, Reproductive
551	HDPCV29	Immune/Hematopoietic
552	HDPDA36	Immune/Hematopoietic
553	HDPDC59	Immune/Hematopoietic, Musculoskeletal
554	HDPFG13	Cancer
555	HDPFK27	Immune/Hematopoietic, Neural/Sensory
556	HDPFZ05	Immune/Hematopoietic, Neural/Sensory
557	HDPGA84	Cancer
558	HDPGR80	Cancer
559	HDPGU14	Cancer
560	HDPGX09	Cancer
561	HDPIE44	Cancer
562	HDPIE73	Immune/Hematopoietic
563	HDPIF35	Immune/Hematopoietic
564	HDPIF65	Immune/Hematopoietic
565	HDPIH25	Cancer
566	HDPIY31	Cancer

663	HE8AU68	Cancer
664	HE8BE20	Cancer
665	HE8BP05	Mixed Fetal
666	HE8BP64	Cancer
667	HE8BQ49	Mixed Fetal
668	HE8BR18	Cancer
669	HE8BR30	Mixed Fetal
670	HE8BT58	Cancer
671	HE8BU60	Cancer
672	HE8CA13	Cancer
673	HE8CC34	Cardiovascular, Digestive, Mixed Fetal
674	HE8CH08	Cancer
675	HE8DG02	Mixed Fetal
676	HE8DK52	Cancer
677	HE8DZ94	Cancer
678	HE8EN79	Cancer
679	HE8EX86	Cancer
680	HE8FC10	Immune/Hematopoietic, Mixed Fetal, Reproductive
681	HE8FG15	Cancer
682	HE8FG24	Cancer
683	HE8FK78	Cancer
684	HE8FL24	Mixed Fetal
685	HE8FL68	Mixed Fetal
686	HE8FR53	Cancer
687	HE8MA27	Cancer
688	HE8MG56	Mixed Fetal
689	HE8MQ01	Cancer
690	HE8MS43	Cancer
691	HE8MY77	Cancer
692	HE8NC81	Cancer
693	HE8NO09	Cancer
694	HE8QU21	Immune/Hematopoietic, Mixed Fetal
695	HE8SH74	Immune/Hematopoietic, Mixed Fetal, Musculoskeletal
696	HE8UX34	Mixed Fetal
697	HE9AE05	Cancer
698	HE9BJ14	Mixed Fetal, Musculoskeletal
699	HE9CI81	Cancer
700	HE9CJ38	Mixed Fetal
701	HE9CM11	Mixed Fetal
702	HE9CN58	Cancer
703	HE9CV59	Cancer
704	HE9DG54	Cancer
705	HE9DH59	Cancer
706	HE9DZ47	Endocrine, Immune/Hematopoietic, Mixed Fetal
707	HE9EC36	Cancer
708	HE9EM54	Immune/Hematopoietic, Mixed Fetal
709	HE9FH28	Mixed Fetal
710	HE9HE13	Cancer

711	HE9HE13	Cancer
712	HE9HF59	Mixed Fetal
713	HE9HV71	Cancer
714	HE9NB82	Cancer
715	HE9NE43	Mixed Fetal
716	HE9RN58	Cancer
717	HE9TA42	Cancer
718	HEAAC21	Cancer
719	HEAAC39	Neural/Sensory, Reproductive
720	HEAAC48	Reproductive
721	HEAAD63	Neural/Sensory, Reproductive
722	HEAAE19	Immune/Hematopoietic, Reproductive
723	HEAAM54	Reproductive
724	HEAAM96	Reproductive
725	HEAAN52	Cancer
726	HEAAU28	Reproductive
727	HEAAW54	Reproductive
728	HEAAW94	Cancer
729	HEBAP51	Cancer
730	HEBAT05	Cancer
731	HEBBF78	Cancer
732	HEBBK04	Cancer
733	HEBCN80	Neural/Sensory
734	HEBCW57	Mixed Fetal, Neural/Sensory
735	HEBDF90	Cancer
736	HEBDW31	Cancer
737	HEBFL36	Neural/Sensory
738	HEBGC01	Neural/Sensory
739	HEBGE23	Cancer
740	HEBGE85	Digestive, Neural/Sensory, Reproductive
741	HEBGJ94	Cancer
742	HEBGM06	Cancer
743	HEEAB58	Cancer
744	HEEAF49	Cancer
745	HEEAJ46	Mixed Fetal, Reproductive
746	HEGAI20	Reproductive
747	HELAC52	Cancer
748	HELAC55	Cardiovascular, Immune/Hematopoietic, Musculoskeletal
749	HELAT58	Cardiovascular
750	HELAW94	Cancer
751	HELDHF80	Cancer
752	HELDH39	Cancer
753	HELDK79	Cardiovascular
754	HELDQ42	Cancer
755	HELEE85	Cancer
756	HELEL76	Cancer
757	HELEL76	Cancer
758	HELEO45	Cancer
759	HELFA57	Cancer
760	HELFO30	Cancer

761	HELG28	Cancer
762	HELGP60	Cardiovascular, Excretory, Immune/Hematopoietic
763	HELHN47	Cancer
764	HELHP11	Cardiovascular, Immune/Hematopoietic
765	HELHP11	Cardiovascular, Immune/Hematopoietic
766	HEMAE30	Cancer
767	HEMBV40	Cancer
768	HEMCJ80	Cancer
769	HEMCL55	Cardiovascular
770	HEMDB07	Cardiovascular
771	HEMDR05	Cardiovascular, Digestive, Immune/Hematopoietic
772	HEMGK71	Cardiovascular, Immune/Hematopoietic, Musculoskeletal
773	HEOMF59	Immune/Hematopoietic
774	HEOMJ73	Cancer
775	HEOMR67	Cancer
776	HEOMU25	Connective/Epithelial, Immune/Hematopoietic
777	HEOMU44	Cancer
778	HEONI85	Digestive, Immune/Hematopoietic, Reproductive
779	HEONK04	Cancer
780	HEONP08	Immune/Hematopoietic
781	HEPAD15	Endocrine, Reproductive
782	HEPBC23	Cancer
783	HEPBV09	Reproductive
784	HEPCF35	Neural/Sensory, Reproductive
785	HEPCU48	Cancer
786	HEQAH47	Cancer
787	HEQAP92	Cancer
788	HEQAV53	Cancer
789	HEQBJ01	Cancer
790	HEQBJ01	Cancer
791	HEQBJ01	Cancer
792	HEQBM94	Cancer
793	HEQCB93	Cancer
794	HERA163	Connective/Epithelial
795	HERAQ22	Connective/Epithelial
796	HERAS61	Connective/Epithelial
797	HESAG57	Cancer
798	HETAA62	Cancer
799	HETBB70	Immune/Hematopoietic, Reproductive
800	HETBJ88	Cancer
801	HETCM67	Cancer
802	HETDD61	Reproductive
803	HETDD61	Reproductive
804	HETDJ34	Cancer
805	HETDM73	Cancer

806	HETDP76	Cancer
807	HETFO57	Cancer
808	HETGZ31	Cancer
809	HETHD26	Cancer
810	HETHM27	Cancer
811	HETIN36	Cancer
812	HFAAI17	Neural/Sensory
813	HFAAJ45	Immune/Hematopoietic, Neural/Sensory
814	HFADF41	Neural/Sensory
815	HFADM09	Cancer
816	HFAUA23	Cancer
817	HFCAG75	Cancer
818	HFCAI40	Cancer
819	HFCAQ17	Cancer
820	HFCBC16	Neural/Sensory
821	HFCBL53	Cancer
822	HFCBL53	Cancer
823	HFCBL53	Cancer
824	HFCBT29	Cancer
825	HFCCZ31	Cancer
826	HFCDN13	Cancer
827	HFCDT67	Cancer
828	HFCDY36	Neural/Sensory
829	HFCEC45	Cancer
830	HFCEY43	Cancer
831	HFEAG55	Cancer
832	HFEAU63	Connective/Epithelial
833	HFEBA88	Cancer
834	HFEBK75	Connective/Epithelial
835	HFEBO15	Cancer
836	HFEBO17	Connective/Epithelial
837	HFFAE46	Neural/Sensory
838	HFFAH01	Digestive, Immune/Hematopoietic, Neural/Sensory
839	HFHAL70	Cancer
840	HFHAV61	Neural/Sensory
841	HFGAB50	Cancer
842	HFGAE28	Cancer
843	HFGAN63	Cancer
844	HFHDN80	Cardiovascular, Digestive, Immune/Hematopoietic
845	HFHAB78	Cancer
846	HFHAD23	Cancer
847	HFHAK06	Musculoskeletal, Reproductive
848	HFHCH70	Musculoskeletal
849	HFHHQ57	Musculoskeletal, Reproductive
850	HFHUK29	Cancer
851	HFHUK29	Cancer
852	HFHUK29	Cancer
853	HFHUK29	Cancer
854	HFHUK27	Cancer
855	HFHUK64	Cancer
856	HFHIZ61	Cancer

857	HFJD81	Cancer
858	HFJF44	Cancer
859	HFITA02	Immune/Hematopoietic, Musculoskeletal
860	HFITF80	Cancer
861	HFJUK66	Cancer
862	HFJUT21	Cancer
863	HFJVB04	Cancer
864	HFJXC39	Cancer
865	HFJXC69	Cancer
866	HFJXE39	Cancer
867	HFJYP15	Immune/Hematopoietic, Musculoskeletal
868	HFJZE10	Cancer
869	HFJZF51	Musculoskeletal
870	HFJZK42	Immune/Hematopoietic, Musculoskeletal
871	HFJZM89	Musculoskeletal
872	HFKBA62	Digestive, Excretory, Neural/Sensory
873	HFKBC47	Cancer
874	HFKDX53	Cancer
875	HFKEB14	Cancer
876	HFKEG63	Excretory
877	HFKES35	Cancer
878	HFKES35	Cancer
879	HFKEU17	Cancer
880	HFKEV77	Cancer
881	HFKFI15	Cancer
882	HFKFI35	Excretory
883	HFKFK49	Cancer
884	HFKFV88	Cancer
885	HFKFV88	Cancer
886	HFKFV88	Cancer
887	HFKFX64	Excretory, Mixed Fetal
888	HFOXD49	Cancer
889	HFOXE28	Cancer
890	HFOYH74	Musculoskeletal
891	HFOYP02	Musculoskeletal
892	HFOYR24	Musculoskeletal
893	HFOYR54	Cancer
894	HFOZB26	Cancer
895	HFPBF54	Cancer
896	HFPBF54	Cancer
897	HFPBI93	Cancer
898	HFPBJ64	Musculoskeletal, Neural/Sensory
899	HFPBQ55	Musculoskeletal, Neural/Sensory, Reproductive
900	HFPCK22	Cancer
901	HFPCM32	Neural/Sensory
902	HFPCM36	Cancer
903	HFPSC84	Neural/Sensory
904	HFPCU47	Neural/Sensory
905	HFPCY66	Digestive, Neural/Sensory

906	HFPDC65	Cancer
907	HFPDE42	Musculoskeletal, Neural/Sensory
908	HFPDE88	Neural/Sensory
909	HFPDO25	Neural/Sensory
910	HFPDP70	Neural/Sensory
911	HFPDR39	Cancer
912	HFPDX08	Cancer
913	HFPEP69	Neural/Sensory
914	HFRAU40	Cancer
915	HFRAY90	Cancer
916	HFSAY91	Cancer
917	HFSBC10	Immune/Hematopoietic, Mixed Fetal
918	HFSBE94	Immune/Hematopoietic
919	HFTAN11	Cancer
920	HFTAR27	Cancer
921	HFTAR30	Cancer
922	HFTAS49	Cancer
923	HFTBB50	Cancer
924	HFTBL17	Cancer
925	HFTBL17	Cancer
926	HFTCF02	Digestive, Musculoskeletal, Neural/Sensory
927	HFTCI85	Neural/Sensory
928	HFTCJ32	Neural/Sensory
929	HFTCO17	Cancer
930	HFTCW07	Neural/Sensory
931	HFTDF32	Cancer
932	HFTDF79	Immune/Hematopoietic, Neural/Sensory, Reproductive
933	HFTDK11	Cancer
934	HFTDU08	Immune/Hematopoietic, Musculoskeletal, Neural/Sensory
935	HFVGK67	Digestive, Immune/Hematopoietic
936	HFVHD38	Cancer
937	HFVHY57	Cancer
938	HFVIC33	Cancer
939	HFXAK32	Cancer
940	HFXAK59	Cancer
941	HFXBI64	Neural/Sensory
942	HFXBL05	Mixed Fetal, Neural/Sensory
943	HFXBM52	Neural/Sensory
944	HFXBR58	Neural/Sensory
945	HFXBV67	Digestive, Neural/Sensory
946	HFXBY20	Neural/Sensory
947	HFXCB70	Neural/Sensory
948	HFXCL42	Neural/Sensory
949	HFXCL59	Immune/Hematopoietic, Musculoskeletal, Neural/Sensory
950	HFXCM22	Neural/Sensory, Reproductive

951	HFXCN18	Neural/Sensory
952	HFXCS53	Cancer
953	HFXDB37	Neural/Sensory
954	HFXDI32	Neural/Sensory
955	HFXDI43	Neural/Sensory
956	HFXDL76	Immune/Hematopoietic, Musculoskeletal, Neural/Sensory
957	HFXDM75	Neural/Sensory
958	HFXDO18	Neural/Sensory
959	HFXDP44	Neural/Sensory
960	HFXDR08	Immune/Hematopoietic, Neural/Sensory, Reproductive
961	HFXDR28	Neural/Sensory
962	HFXDR28	Neural/Sensory
963	HFXDR47	Cancer
964	HFXDZ03	Immune/Hematopoietic, Neural/Sensory
965	HFXED33	Neural/Sensory
966	HFXEE88	Neural/Sensory
967	HFXGR32	Neural/Sensory
968	HFXGT51	Neural/Sensory
969	HFXGW16	Neural/Sensory
970	HFXHC15	Neural/Sensory
971	HFXHI33	Immune/Hematopoietic, Neural/Sensory
972	HFXHL21	Neural/Sensory
973	HFXHL83	Neural/Sensory
974	HFXHM49	Neural/Sensory
975	HFXHM93	Neural/Sensory
976	HFXHN89	Immune/Hematopoietic, Neural/Sensory
977	HFXJB21	Neural/Sensory
978	HFXJN93	Neural/Sensory
979	HFXJS15	Cancer
980	HFXJT53	Cancer
981	HFXKG56	Neural/Sensory
982	HFXKL60	Cancer
983	HFXLG08	Neural/Sensory
984	HFXLK91	Cancer
985	HFXLM32	Neural/Sensory, Reproductive
986	HGBAX83	Digestive
987	HGBBR29	Cancer
988	HGBDL51	Cancer
989	HGBDV35	Cancer
990	HGBDX28	Cancer
991	HGBGX31	Cancer
992	HGBHE23	Cancer
993	HGBHI15	Digestive
994	HGCMW39	Cancer
995	HGLAG32	Cancer
996	HGLAH08	Cancer
997	HGLAH86	Immune/Hematopoietic
998	HGLBC33	Cancer
999	HGLBG15	Cancer
1000	HGLBM55	Cancer
1001	HGLDA95	Cancer

1002	HGLDB06	Cancer
1003	HGLDE15	Digestive, Immune/Hematopoietic
1004	HHBEI14	Cancer
1005	HHBGL33	Cardiovascular, Digestive
1006	HHEAW44	Immune/Hematopoietic
1007	HHEBP28	Cancer
1008	HHECK41	Cancer
1009	HHECR10	Immune/Hematopoietic
1010	HHEMC55	Immune/Hematopoietic
1011	HHEMM20	Immune/Hematopoietic
1012	HHEMM80	Immune/Hematopoietic
1013	HHEMP35	Cancer
1014	HHEMZ08	Cancer
1015	HHENC17	Cancer
1016	HHENF95	Immune/Hematopoietic
1017	HHENR74	Immune/Hematopoietic
1018	HHENU33	Immune/Hematopoietic
1019	HHENY07	Cancer
1020	HHEOK77	Cancer
1021	HHEPE72	Immune/Hematopoietic
1022	HHEPE81	Cancer
1023	HHEPM64	Cancer
1024	HHEQI04	Connective/Epithelial, Excretory, Immune/Hematopoietic
1025	HHEQY60	Immune/Hematopoietic
1026	HHFBA31	Cancer
1027	HHFCI81	Cancer
1028	HHFCN78	Cardiovascular, Immune/Hematopoietic
1029	HHFCT95	Cancer
1030	HHFDN16	Cardiovascular
1031	HHFEB79	Cancer
1032	HHFEC39	Cancer
1033	HHFEN34	Cardiovascular
1034	HHFFZ01	Cancer
1035	HHFGI71	Cardiovascular
1036	HHFGJ54	Cancer
1037	HHFGL38	Cardiovascular, Immune/Hematopoietic
1038	HHFGR75	Cardiovascular, Immune/Hematopoietic, Neural/Sensory
1039	HHFGZ23	Cardiovascular, Digestive, Endocrine
1040	HHFHG26	Cardiovascular, Neural/Sensory
1041	HHFHM47	Cardiovascular, Immune/Hematopoietic
1042	HHGAA76	Immune/Hematopoietic, Reproductive
1043	HHGAD46	Cancer
1044	HHGAT09	Cancer
1045	HHGBC21	Cancer
1046	HHGBF91	Cancer
1047	HHGBG63	Cancer

1096	HHTLH79	Immune/Hematopoietic, Musculoskeletal, Neural/Sensory
1097	HIABC70	Cancer
1098	HIATG10	Endocrine
1099	HIBCO70	Cancer
1100	HIBCR82	Mixed Fetal, Neural/Sensory
1101	HIBDA41	Cancer
1102	HIBEC45	Cancer
1103	HILBW03	Cancer
1104	HISAE16	Digestive
1105	HISAG53	Cancer
1106	HISAN63	Digestive
1107	HISAT78	Cancer
1108	HISBA38	Digestive, Immune/Hematopoietic
1109	HISBB66	Cancer
1110	HISCJ20	Cancer
1111	HISCK41	Digestive
1112	HISCO45	Cancer
1113	HISEJ52	Cancer
1114	HJABC58	Cancer
1115	HJABG59	Immune/Hematopoietic
1116	HJABR75	Immune/Hematopoietic
1117	HJABS31	Cancer
1118	HJABT12	Digestive, Immune/Hematopoietic, Neural/Sensory
1119	HJACE25	Cancer
1120	HJACK21	Cancer
1121	HJBCG74	Cancer
1122	HJBCO21	Cancer
1123	HJBCQ40	Immune/Hematopoietic
1124	HJBDM36	Cancer
1125	HJMAF30	Cancer
1126	HJMAM72	Cancer
1127	HJMAZ60	Cancer
1128	HJMBB20	Cancer
1129	HJMBB20	Cancer
1130	HJMBB20	Cancer
1131	HJMBK59	Cancer
1132	HJMBP01	Cancer
1133	HJMBQ17	Cancer
1134	HJMBW62	Reproductive
1135	HJMBX54	Musculoskeletal, Reproductive
1136	HJPAF69	Immune/Hematopoietic
1137	HJPAQ19	Cancer
1138	HJPAZ35	Cancer
1139	HJPBI77	Immune/Hematopoietic, Musculoskeletal, Neural/Sensory
1140	HJPBN96	Cancer
1141	HJPBU47	Cancer
1142	HJPCQ19	Cancer
1143	HJPDJ08	Immune/Hematopoietic
1144	HJPDK61	Cancer
1145	HKABI53	Cancer

		Reproductive
1198	HKMLV05	Excretory, Immune/Hematopoietic
1199	HKMLV25	Cancer
1200	HKMMB79	Cancer
1201	HKMMC69	Excretory, Immune/Hematopoietic
1202	HKMMD91	Cancer
1203	HKMMP90	Excretory, Immune/Hematopoietic, Neural/Sensory
1204	HKMMU76	Cancer
1205	HKPAC10	Excretory
1206	HKPAC50	Cancer
1207	HKPMA08	Cancer
1208	HKTAC18	Cancer
1209	HL1SA89	Cancer
1210	HL2AB60	Cancer
1211	HL3AE69	Cancer
1212	HL3AF32	Cancer
1213	HLDAV70	Digestive, Immune/Hematopoietic
1214	HLDBL62	Cancer
1215	HLDBV18	Cancer
1216	HLDBV54	Cancer
1217	HLDCR26	Cancer
1218	HLDDM27	Cancer
1219	HLDDM27	Cancer
1220	HLDNF18	Cancer
1221	HLDNN84	Digestive, Mixed Fetal
1222	HLDOD77	Digestive
1223	HLDOL74	Cancer
1224	HLDPB24	Cardiovascular, Digestive
1225	HLDRU08	Cancer
1226	HLDXF43	Cancer
1227	HLEAA10	Immune/Hematopoietic
1228	HLEAA24	Immune/Hematopoietic
1229	HLHAE14	Neural/Sensory, Respiratory
1230	HLHAE14	Neural/Sensory, Respiratory
1231	HLHBS54	Cancer
1232	HLHCB33	Digestive, Reproductive, Respiratory
1233	HLHCF14	Connective/Epithelial, Respiratory
1234	HLHCG24	Cancer
1235	HLHCH20	Cancer
1236	HLHCN51	Digestive, Immune/Hematopoietic, Respiratory
1237	HLHCT96	Cancer
1238	HLHDC33	Immune/Hematopoietic, Reproductive, Respiratory
1239	HLHDF92	Cancer

1240	HLHDJ05	Respiratory
1241	HLHDL37	Respiratory
1242	HLHDL69	Cancer
1243	HLHDL69	Cancer
1244	HLHDL69	Cancer
1245	HLHDL69	Cancer
1246	HLHDM38	Cancer
1247	HLHDR92	Neural/Sensory, Respiratory
1248	HLHDY94	Cancer
1249	HLHEE27	Cancer
1250	HLHEE38	Connective/Epithelial, Neural/Sensory, Respiratory
1251	HLHEI72	Musculoskeletal, Respiratory
1252	HLHEX62	Excretory, Immune/Hematopoetic, Respiratory
1253	HLHFK59	Digestive, Respiratory
1254	HLHFP09	Cancer
1255	HLHGG78	Cancer
1256	HLHSG15	Cancer
1257	HLHSQ35	Respiratory
1258	HLHTB92	Immune/Hematopoetic, Respiratory
1259	HLHTP55	Cancer
1260	HLIBD74	Digestive
1261	HLIBE41	Digestive, Immune/Hematopoetic, Reproductive
1262	HLIBO16	Digestive, Immune/Hematopoetic
1263	HLJBI22	Cancer
1264	HLJEE16	Cancer
1265	HLJAX64	Cancer
1266	HLJAX95	Immune/Hematopoetic
1267	HLLCD67	Immune/Hematopoetic
1268	HLMBX89	Cancer
1269	HLMBZ14	Immune/Hematopoetic
1270	HLMCT51	Immune/Hematopoetic, Reproductive
1271	HLMCT95	Cancer
1272	HLMDD65	Cancer
1273	HLMDH01	Immune/Hematopoetic
1274	HLMDU23	Immune/Hematopoetic
1275	HLMFB62	Immune/Hematopoetic
1276	HLMFG52	Immune/Hematopoetic
1277	HLMFU53	Cancer
1278	HLMHG68	Cancer
1279	HLMHN06	Immune/Hematopoetic, Neural/Sensory
1280	HLMHS15	Immune/Hematopoetic
1281	HLMIM84	Cancer
1282	HLMIN52	Cancer
1283	HLMIQ83	Immune/Hematopoetic
1284	HLMIW76	Immune/Hematopoetic
1285	HLMMA65	Immune/Hematopoetic

1335	HL YBL67	Immune/Hematopoietic
1336	HL YBM38	Digestive, Immune/Hematopoietic
1337	HL YBN23	Immune/Hematopoietic
1338	HL YBN71	Immune/Hematopoietic
1339	HL YBS25	Digestive, Immune/Hematopoietic, Reproductive
1340	HL YBT28	Immune/Hematopoietic
1341	HL YBU15	Immune/Hematopoietic
1342	HL YBY04	Immune/Hematopoietic
1343	HL YCE15	Digestive, Immune/Hematopoietic
1344	HL YCH04	Immune/Hematopoietic
1345	HL YCY48	Immune/Hematopoietic
1346	HL YDE38	Immune/Hematopoietic
1347	HL YDG55	Immune/Hematopoietic
1348	HL YDO73	Immune/Hematopoietic
1349	HL YEA60	Cancer
1350	HL YEJ14	Cancer
1351	HL YEJ44	Cancer
1352	HL YEU51	Immune/Hematopoietic
1353	HL YGV19	Cancer
1354	HMA BK52	Immune/Hematopoietic
1355	HMA CF34	Immune/Hematopoietic
1356	HMA CL77	Cancer
1357	HMA CT74	Immune/Hematopoietic
1358	HMA DJ14	Connective/Epithelial, Immune/Hematopoietic, Musculoskeletal
1359	HMA DJ74	Connective/Epithelial, Immune/Hematopoietic, Musculoskeletal
1360	HMA EA58	Cancer
1361	HMA GF01	Cancer
1362	HMA JS26	Cancer
1363	HMA CD78	Cancer
1364	HMA CFN86	Cancer
1365	HMA CGJ47	Cancer
1366	HMA CGK88	Cancer
1367	HMA CH27	Cancer
1368	HMA CIQ20	Cardiovascular, Immune/Hematopoietic, Neural/Sensory
1369	HMA JC19	Immune/Hematopoietic
1370	HMA DB44	Neural/Sensory
1371	HMA DE88	Neural/Sensory
1372	HMA DGA62	Cancer
1373	HMA DK20	Neural/Sensory
1374	HMA DM08	Neural/Sensory
1375	HMA DM39	Neural/Sensory
1376	HMA EA41	Cancer
1377	HMA ECM77	Cardiovascular
1378	HMA EEH21	Cardiovascular
1379	HMA ET36	Cancer
1380	HMA EZ07	Cardiovascular, Reproductive
1381	HMA FB15	Cardiovascular
1382	HMA IH57	Cardiovascular,

		Immune/Hematopoietic
1383	HMEU21	Cancer
1384	HMEIX79	Cancer
1385	HMEJC96	Cancer
1386	HMEJD36	Cardiovascular, Endocrine, Immune/Hematopoietic
1387	HMEJK28	Cancer
1388	HMEKH55	Cancer
1389	HMEKW44	Cardiovascular, Immune/Hematopoietic, Neural/Sensory
1390	HMEKW71	Cancer
1391	HMELW26	Cancer
1392	HMGHT32	Cancer
1393	HMHBI09	Cancer
1394	HMHBI93	Cancer
1395	HMHBP74	Cancer
1396	HMIAC52	Cancer
1397	HMIAD75	Neural/Sensory
1398	HMIAG42	Cancer
1399	HMIAG55	Cancer
1400	HMIAG72	Cancer
1401	HMIAL39	Cancer
1402	HMIAO82	Cancer
1403	HMIAR42	Cancer
1404	HMIIV33	Immune/Hematopoietic, Mixed Fetal, Neural/Sensory
1405	HMIIZ24	Cancer
1406	HMIBD93	Cancer
1407	HMIBE95	Neural/Sensory
1408	HMIBG57	Immune/Hematopoietic, Neural/Sensory, Reproductive
1409	HMJAC12	Neural/Sensory
1410	HMKAN71	Cancer
1411	HMKBA33	Neural/Sensory
1412	HMKCI22	Cancer
1413	HMKCK32	Neural/Sensory
1414	HMKCP81	Cancer
1415	HMKCY49	Immune/Hematopoietic, Neural/Sensory
1416	HMKDD51	Neural/Sensory
1417	HMKDG69	Cardiovascular, Neural/Sensory
1418	HMKDM80	Neural/Sensory
1419	HMKEG88	Neural/Sensory
1420	HMMAA09	Immune/Hematopoietic
1421	HMMAK92	Immune/Hematopoietic
1422	HMMAL32	Immune/Hematopoietic
1423	HMMBD19	Immune/Hematopoietic, Reproductive
1424	HMMBF22	Immune/Hematopoietic, Reproductive
1425	HMMBH91	Immune/Hematopoietic
1426	HMMBH94	Immune/Hematopoietic
1427	HMMBK55	Immune/Hematopoietic
1428	HMMBQ31	Cardiovascular,

1472	HMSII36	Immune/Hematopoietic
1473	HMSIT42	Digestive, Immune/Hematopoietic, Neural/Sensory
1474	HMSJB08	Cancer
1475	HMSJI69	Immune/Hematopoietic
1476	HMSJM20	Immune/Hematopoietic
1477	HMSJR44	Immune/Hematopoietic
1478	HMSKQ91	Immune/Hematopoietic
1479	HMSKY45	Immune/Hematopoietic
1480	HMTAF92	Cancer
1481	HMTAT36	Cancer
1482	HMUAB93	Cancer
1483	HMUAD65	Immune/Hematopoietic, Musculoskeletal
1484	HMUAT23	Cancer
1485	HMUBA47	Cancer
1486	HMUBJ22	Cancer
1487	HMUBK53	Cancer
1488	HMUBN24	Musculoskeletal
1489	HMUBO15	Cancer
1490	HMUBX48	Musculoskeletal, Reproductive
1491	HMUBY57	Cancer
1492	HMUBZ15	Cancer
1493	HMVAL15	Cancer
1494	HMVBC84	Digestive, Immune/Hematopoietic, Neural/Sensory
1495	HMVBD68	Cancer
1496	HMVCG17	Immune/Hematopoietic
1497	HMVCS92	Cancer
1498	HMVCS92	Cancer
1499	HMVDB45	Immune/Hematopoietic
1500	HMVDJ71	Cancer
1501	HMVDT89	Cancer
1502	HMVDT89	Cancer
1503	HMWAO65	Cancer
1504	HMWAO82	Immune/Hematopoietic
1505	HMWBD74	Cancer
1506	HMWBK35	Cancer
1507	HMWBK86	Immune/Hematopoietic, Mixed Fetal
1508	HMWBL38	Connective/Epithelial, Immune/Hematopoietic
1509	HMWBM48	Cancer
1510	HMWCG28	Cancer
1511	HMWCP85	Digestive, Immune/Hematopoietic
1512	HMWDG30	Cancer
1513	HMWDU20	Cancer
1514	HMWDX57	Digestive, Immune/Hematopoietic, Respiratory
1515	HMWDZ63	Immune/Hematopoietic
1516	HMWEA77	Immune/Hematopoietic
1517	HMWEC03	Cancer
1518	HMWEF46	Immune/Hematopoietic
1519	HMWEK43	Immune/Hematopoietic

1520	HMWEM23	Cancer
1521	HMWEM23	Cancer
1522	HMWER46	Cancer
1523	HMWEU96	Cancer
1524	HMWEX02	Cancer
1525	HMWFB65	Cancer
1526	HMWFD77	Immune/Hematopoietic
1527	HMWFO25	Immune/Hematopoietic
1528	HMWFO89	Cancer
1529	HMWGM41	Cancer
1530	HMWGO95	Immune/Hematopoietic
1531	HMWGV85	Cancer
1532	HMWGZ42	Immune/Hematopoietic
1533	HMWHR36	Immune/Hematopoietic
1534	HMWIM55	Immune/Hematopoietic
1535	HMWIQ26	Cancer
1536	HMWIU49	Cancer
1537	HMWIJ62	Cancer
1538	HMWIJ64	Cancer
1539	HNAAD76	Digestive, Immune/Hematopoietic
1540	HNAAE24	Digestive
1541	HNALD94	Cancer
1542	HNALB44	Cancer
1543	HNDAC35	Cancer
1544	HNEAA04	Immune/Hematopoietic
1545	HNEAH26	Immune/Hematopoietic, Neural/Sensory
1546	HNEAK38	Immune/Hematopoietic
1547	HNEAK65	Cancer
1548	HNEBX72	Immune/Hematopoietic, Neural/Sensory
1549	HNEBY79	Immune/Hematopoietic
1550	HNECD52	Immune/Hematopoietic, Neural/Sensory
1551	HNECL75	Cancer
1552	HNECX90	Cancer
1553	HNECX90	Cancer
1554	HNEDA05	Immune/Hematopoietic
1555	HNEDP75	Immune/Hematopoietic
1556	HNEDQ02	Cancer
1557	HNEDU46	Cancer
1558	HNFAD50	Cancer
1559	HNFAD50	Cancer
1560	HNFAG67	Cancer
1561	HNFCJ77	Immune/Hematopoietic, Reproductive
1562	HNFCO56	Cancer
1563	HNFCY57	Connective/Epithelial, Immune/Hematopoietic, Respiratory
1564	HNFDL89	Digestive, Immune/Hematopoietic
1565	HNFDT73	Excretory, Immune/Hematopoietic, Reproductive
1566	HNFDU92	Immune/Hematopoietic
1567	HNFDY09	Digestive, Immune/Hematopoietic,

1670	HNGJL07	Immune/Hematopoietic, Neural/Sensory
1671	HNGJS66	Immune/Hematopoietic, Reproductive
1672	HNGJU60	Immune/Hematopoietic
1673	HNGKB09	Immune/Hematopoietic, Reproductive
1674	HNGKW35	Immune/Hematopoietic
1675	HNGKY94	Immune/Hematopoietic
1676	HNGLD28	Immune/Hematopoietic
1677	HNGOY36	Immune/Hematopoietic
1678	HNHAB38	Immune/Hematopoietic, Musculoskeletal
1679	HNHAC43	Cancer
1680	HNHAD34	Immune/Hematopoietic
1681	HNHAG83	Immune/Hematopoietic, Mixed Fetal, Musculoskeletal
1682	HNHAH06	Immune/Hematopoietic
1683	HNHAJ65	Immune/Hematopoietic
1684	HNHAL61	Immune/Hematopoietic
1685	HNHAP58	Cancer
1686	HNHAW34	Immune/Hematopoietic
1687	HNHAW35	Immune/Hematopoietic
1688	HNHAY26	Immune/Hematopoietic
1689	HNHAY86	Immune/Hematopoietic, Neural/Sensory
1690	HNHAZ20	Immune/Hematopoietic
1691	HNHBE21	Immune/Hematopoietic
1692	HNHBE38	Cancer
1693	HNHBG18	Immune/Hematopoietic
1694	HNHBI65	Immune/Hematopoietic
1695	HNHBM16	Immune/Hematopoietic, Neural/Sensory
1696	HNHCH78	Immune/Hematopoietic
1697	HNHCP14	Immune/Hematopoietic
1698	HNHCQ44	Immune/Hematopoietic
1699	HNHCT22	Cardiovascular, Immune/Hematopoietic
1700	HNHCT47	Cardiovascular, Immune/Hematopoietic
1701	HNHCV48	Immune/Hematopoietic
1702	HNHCZ54	Cancer
1703	HNHDC52	Immune/Hematopoietic, Neural/Sensory
1704	HNHDD95	Immune/Hematopoietic
1705	HNHDE58	Cancer
1706	HNHDI17	Immune/Hematopoietic
1707	HNHDL37	Immune/Hematopoietic
1708	HNHDM21	Immune/Hematopoietic
1709	HNHDR57	Immune/Hematopoietic
1710	HNHDR96	Immune/Hematopoietic
1711	HNHIDU62	Immune/Hematopoietic
1712	HNHIDW34	Immune/Hematopoietic
1713	HNHDX28	Immune/Hematopoietic
1714	HNHIDZ06	Immune/Hematopoietic
1715	HNHIDZ42	Immune/Hematopoietic
1716	HNHEF37	Immune/Hematopoietic
1717	HNHEF49	Immune/Hematopoietic

1769	HOBNE51	Cancer
1770	HODAH24	Reproductive
1771	HODAH46	Cancer
1772	HODAV25	Cancer
1773	HODAW64	Cardiovascular, Neural/Sensory, Reproductive
1774	HODAY17	Cancer
1775	HODBA45	Reproductive
1776	HODBC79	Cancer
1777	HODBD79	Immune/Hematopoetic, Reproductive
1778	HODBF12	Cancer
1779	HODBF86	Digestive, Reproductive
1780	HODBF91	Cancer
1781	HODBW34	Digestive, Immune/Hematopoetic, Reproductive
1782	HODBX93	Reproductive
1783	HODBZ06	Cancer
1784	HODCA73	Cancer
1785	HODCV86	Immune/Hematopoetic, Reproductive
1786	HODCY44	Reproductive
1787	HODDB58	Neural/Sensory, Reproductive
1788	HODDG72	Cancer
1789	HODDJ25	Cancer
1790	HODDN21	Reproductive
1791	HODDO31	Reproductive
1792	HODDQ06	Cancer
1793	HODEA20	Cancer
1794	HODEM38	Digestive, Immune/Hematopoetic, Reproductive
1795	HODET37	Reproductive
1796	HOEBI94	Cancer
1797	HOEBJ70	Cancer
1798	HOECB33	Cancer
1799	HOECX21	Cancer
1800	HOEDE27	Musculoskeletal
1801	HOEEK81	Cancer
1802	HOEEZ62	Musculoskeletal
1803	HOEFJ26	Cancer
1804	HOEFL74	Cardiovascular, Digestive, Musculoskeletal
1805	HOFMF63	Cancer
1806	HOFMJ65	Cancer
1807	HOFMK02	Immune/Hematopoetic, Reproductive
1808	HOFMO16	Reproductive
1809	HOFMP62	Reproductive
1810	HOFMT59	Reproductive
1811	HOFMV22	Reproductive
1812	HOFND06	Digestive, Reproductive
1813	HOFNY15	Reproductive

1814	HOFNY28	Reproductive
1815	HOFOC41	Reproductive
1816	HOGAA41	Cancer
1817	HOGAB51	Immune/Hematopoietic, Reproductive
1818	HOGAH40	Cancer
1819	HOGAP06	Immune/Hematopoietic, Reproductive
1820	HOGAR36	Reproductive
1821	HOGAR71	Cancer
1822	HOGCC26	Cancer
1823	HOGCD78	Reproductive
1824	HOGCK03	Cancer
1825	HOGCL01	Cancer
1826	HOHBB36	Cancer
1827	HOHBC57	Cancer
1828	HOHBO66	Cancer
1829	HOHBZ10	Cancer
1830	HOHCH71	Cancer
1831	HOHEB48	Musculoskeletal
1832	HONAH67	Digestive, Excretory, Reproductive
1833	HOOAC84	Immune/Hematopoietic, Neural/Sensory, Reproductive
1834	HOPBP13	Cancer
1835	HOQBG21	Cancer
1836	HORBI80	Cancer
1837	HORBL77	Cancer
1838	HOSBX14	Immune/Hematopoietic, Musculoskeletal, Reproductive
1839	HOSCZ41	Cancer
1840	HOSEM81	Cancer
1841	HOSEO83	Cancer
1842	HOSFR35	Cancer
1843	HOUAZ32	Cancer
1844	HOUBC29	Connective/Epithelial, Immune/Hematopoietic, Reproductive
1845	HOUBG39	Connective/Epithelial, Immune/Hematopoietic, Musculoskeletal
1846	HOUCD12	Connective/Epithelial
1847	HOUDB17	Connective/Epithelial
1848	HOUDX40	Connective/Epithelial
1849	HOUEF84	Cancer
1850	HOUEJ43	Connective/Epithelial
1851	HOUGS36	Connective/Epithelial
1852	HOUHQ36	Connective/Epithelial
1853	HOUIG68	Cancer
1854	HOUIG92	Cancer
1855	HOVAD93	Reproductive
1856	HOVAE10	Cancer
1857	HOVAE36	Reproductive
1858	HOVAE82	Immune/Hematopoietic, Reproductive
1859	HOVAJ68	Reproductive

1860	HOVAW46	Musculoskeletal, Reproductive
1861	HOVBB19	Musculoskeletal, Reproductive
1862	HOVBD31	Cancer
1863	HOVBE81	Reproductive
1864	HOVBI16	Cancer
1865	HOVBS68	Cancer
1866	HOVCC73	Immune/Hematopoietic, Reproductive
1867	HOVCF30	Immune/Hematopoietic, Reproductive
1868	HOVCJ71	Reproductive
1869	HOVCN53	Reproductive
1870	HOVCO53	Reproductive
1871	HPASF94	Cancer
1872	HPBCG26	Cancer
1873	HPBCT11	Reproductive
1874	HPBDE33	Cancer
1875	HPBDE33	Cancer
1876	HPBDF31	Cancer
1877	HPCAG17	Immune/Hematopoietic, Reproductive
1878	HPCAG17	Immune/Hematopoietic, Reproductive
1879	HPCAM02	Immune/Hematopoietic, Musculoskeletal, Reproductive
1880	HPDDQ17	Endocrine
1881	HPDDQ28	Endocrine, Musculoskeletal
1882	HPDDT14	Cancer
1883	HPEAA65	Digestive, Immune/Hematopoietic, Reproductive
1884	HPEAG24	Cancer
1885	HPEBA84	Immune/Hematopoietic, Reproductive
1886	HPEBF91	Cancer
1887	HPEBI09	Digestive, Reproductive
1888	HPFCJ75	Cancer
1889	HPFCP75	Immune/Hematopoietic, Neural/Sensory, Reproductive
1890	HPFDB66	Cancer
1891	HPFDD28	Reproductive
1892	HPFDI47	Digestive, Reproductive
1893	HPIAF35	Reproductive
1894	HPIAK27	Cancer
1895	HPIAL55	Cancer
1896	HPIAT18	Cancer
1897	HPIAZ52	Reproductive
1898	HPIBA07	Cancer
1899	HPIBA24	Cancer
1900	HPIBI40	Cancer
1901	HPIBT19	Reproductive
1902	HPJAA82	Reproductive

		Musculoskeletal
1993	HRACB01	Excretory
1994	HRACI39	Excretory
1995	HRADU15	Excretory
1996	HRDAH04	Immune/Hematopoietic, Mixed Fetal, Musculoskeletal
1997	HRDBA20	Musculoskeletal
1998	HRDBD32	Musculoskeletal
1999	HRDBL01	Mixed Fetal, Musculoskeletal, Neural/Sensory
2000	HRDDM85	Musculoskeletal
2001	HRDDS22	Cancer
2002	HRDEJ86	Cancer
2003	HRDEQ34	Musculoskeletal
2004	HRDFE30	Cancer
2005	HRDFT83	Musculoskeletal
2006	HRGCA01	Musculoskeletal
2007	HRGCA06	Cancer
2008	HRGSE38	Cancer
2009	HRLAT43	Cancer
2010	HRLME03	Cancer
2011	HROAN20	Cardiovascular, Digestive
2012	HROAP64	Digestive
2013	HROAS35	Digestive
2014	HROAY16	Digestive
2015	HROBJ10	Cancer
2016	HROBW46	Digestive, Immune/Hematopoietic
2017	HRODG86	Cancer
2018	HRSAI26	Cancer
2019	HRTAE88	Digestive
2020	HRTAP63	Cancer
2021	HRTAR24	Digestive, Immune/Hematopoietic
2022	HSAAAN03	Cancer
2023	HSAAAS05	Immune/Hematopoietic, Neural/Sensory
2024	HSAAW13	Cancer
2025	HSABA15	Cancer
2026	HSABG81	Cancer
2027	HSATA50	Cardiovascular, Immune/Hematopoietic, Musculoskeletal
2028	HSATA61	Cancer
2029	HSATG66	Cancer
2030	HSATI91	Immune/Hematopoietic
2031	HSATR50	Digestive, Immune/Hematopoietic, Reproductive
2032	HSATT82	Immune/Hematopoietic
2033	HSATW19	Immune/Hematopoietic, Musculoskeletal
2034	HSATW67	Excretory, Immune/Hematopoietic, Reproductive
2035	HSATZ02	Immune/Hematopoietic,

		Musculoskeletal
2036	HSAUA95	Immune/Hematopoietic
2037	HSAUB89	Cancer
2038	HSAUI53	Immune/Hematopoietic
2039	HSAUV74	Cancer
2040	HSAUX39	Immune/Hematopoietic
2041	HSAVA58	Immune/Hematopoietic, Mixed Fetal
2042	HSAVB52	Immune/Hematopoietic
2043	HSAVH32	Immune/Hematopoietic
2044	HSAVM49	Immune/Hematopoietic
2045	HSAVO11	Immune/Hematopoietic, Neural/Sensory
2046	HSAVO17	Immune/Hematopoietic, Musculoskeletal
2047	HSAVQ13	Immune/Hematopoietic
2048	HS AVR85	Cancer
2049	HSAVY92	Immune/Hematopoietic, Neural/Sensory
2050	HSAVZ05	Digestive, Immune/Hematopoietic
2051	HS AWB58	Immune/Hematopoietic
2052	HS AWH36	Immune/Hematopoietic
2053	HS AWM20	Immune/Hematopoietic
2054	HS AWM74	Cancer
2055	HS AWW70	Cancer
2056	HS AXC22	Immune/Hematopoietic
2057	HS AXI10	Digestive, Immune/Hematopoietic
2058	HS AXL49	Immune/Hematopoietic
2059	HS AXL82	Immune/Hematopoietic
2060	HS AXN57	Immune/Hematopoietic
2061	HS AXO45	Immune/Hematopoietic
2062	HS AXS06	Immune/Hematopoietic, Reproductive
2063	HS AXS22	Immune/Hematopoietic
2064	HS AYL24	Immune/Hematopoietic
2065	HS AYO82	Endocrine, Immune/Hematopoietic
2066	HS AYR62	Cancer
2067	HS AZP90	Immune/Hematopoietic
2068	HS BAJ47	Cancer
2069	HS DBI90	Digestive, Endocrine, Neural/Sensory
2070	HS DDC55	Neural/Sensory
2071	HS DEA26	Neural/Sensory
2072	HS DEY39	Neural/Sensory
2073	HS DFF72	Cancer
2074	HS DFO08	Neural/Sensory
2075	HS DFR10	Digestive, Neural/Sensory, Reproductive
2076	HS DGB20	Neural/Sensory
2077	HS DGH56	Cancer
2078	HS DGM01	Neural/Sensory
2079	HS DGM42	Cancer
2080	HS DGM42	Cancer
2081	HS DGM42	Cancer

2082	HSDGM42	Cancer
2083	HSDGM42	Cancer
2084	HSDGM42	Cancer
2085	HSDHD05	Neural/Sensory
2086	HSDIE51	Cancer
2087	HSDIK31	Cancer
2088	HSDIV37	Cancer
2089	HSDJC96	Cancer
2090	HSDJE77	Cardiovascular, Immune/Hematopoietic, Neural/Sensory
2091	HSDJF04	Cancer
2092	HSDJG47	Cancer
2093	HSDJH72	Connective/Epithelial, Excretory, Neural/Sensory
2094	HSDJL07	Neural/Sensory, Reproductive
2095	HSDJR49	Neural/Sensory
2096	HSDJV24	Cancer
2097	HSDJV40	Immune/Hematopoietic, Neural/Sensory
2098	HSDKA64	Immune/Hematopoietic, Neural/Sensory
2099	HSDKE82	Neural/Sensory
2100	HSDKF96	Neural/Sensory
2101	HSDZO08	Cancer
2102	HSDZQ96	Neural/Sensory
2103	HSEBB18	Cancer
2104	HSFAM19	Cancer
2105	HSFAG54	Cancer
2106	HSFAS72	Cancer
2107	HSFAX04	Cancer
2108	HSFHT15	Cancer
2109	HSFCE85	Cancer
2110	HSIAC81	Digestive
2111	HSIAF66	Digestive
2112	HSIAP01	Digestive, Reproductive
2113	HSIDA33	Cancer
2114	HSIDA39	Digestive
2115	HSIDZ25	Cancer
2116	HSIEB64	Digestive
2117	HSIEM18	Cancer
2118	HSIFO61	Cancer
2119	HSIFO61	Cancer
2120	HSIGC63	Digestive, Immune/Hematopoietic, Reproductive
2121	HSIGM95	Digestive, Immune/Hematopoietic
2122	HSJAE76	Cancer
2123	HSJAN83	Digestive, Musculoskeletal
2124	HSJAQ10	Cancer
2125	HSJAR59	Musculoskeletal
2126	HSJAU93	Cancer
2127	HSJAY14	Cancer
2128	HSJAY14	Cancer

2129	HSJAY14	Cancer
2130	HSJAY14	Cancer
2131	HSJBB27	Musculoskeletal
2132	HSKBU03	Musculoskeletal, Neural/Sensory
2133	HSKCCQ51	Cancer
2134	HSKDE13	Cancer
2135	HSKDS47	Cancer
2136	HSKHHV81	Musculoskeletal
2137	HSKXB14	Cancer
2138	HSKYR49	Cancer
2139	HSKYU81	Cancer
2140	HSKYY92	Musculoskeletal
2141	HSLAB11	Cancer
2142	HSLAS96	Immune/Hematopoietic, Musculoskeletal
2143	HSLAW59	Immune/Hematopoietic, Musculoskeletal
2144	HSLCH54	Cancer
2145	HSLCH57	Cancer
2146	HSLCI86	Endocrine, Mixed Fetal, Musculoskeletal
2147	HSLCS31	Cancer
2148	HSLCS34	Cancer
2149	HSLCV16	Cancer
2150	HSLDW54	Cancer
2151	HSLC18	Cancer
2152	HSLEG59	Musculoskeletal
2153	HSLFR59	Cancer
2154	HSLGD91	Cancer
2155	HSLGF66	Cancer
2156	HSLGF70	Musculoskeletal, Neural/Sensory
2157	HSLGP68	Musculoskeletal, Neural/Sensory
2158	HSNAB88	Cancer
2159	HSNAH56	Cancer
2160	HSNAN38	Cancer
2161	HSNAO19	Cancer
2162	HSNAQ52	Cancer
2163	HSNAT08	Cancer
2164	HSNAW06	Immune/Hematopoietic
2165	HSNAW37	Cancer
2166	HSNB05	Cancer
2167	HSNBO90	Cancer
2168	HSNBQ36	Cancer
2169	HSNBS39	Cancer
2170	HISOAE34	Digestive, Immune/Hematopoietic
2171	HISOAT44	Cancer
2172	HISOBB94	Cancer
2173	HISOBH11	Digestive
2174	HISOBP75	Cancer
2175	HISOBW65	Digestive
2176	HSPAA89	Digestive
2177	HSPAC13	Cancer
2178	HSPAG75	Digestive
2179	HSPA120	Digestive,

		Neural/Sensory
2180	HSPAL59	Digestive, Immune/Hematopoietic
2181	HSPAY90	Cancer
2182	HSPMF63	Cancer
2183	HSQAC69	Cancer
2184	HSQAH14	Cancer
2185	HSQAX94	Cancer
2186	HSQBL20	Cancer
2187	HSQCQ45	Cancer
2188	HSQCY74	Cancer
2189	HSQDM74	Cancer
2190	HSQEG23	Cancer
2191	HSQEG47	Cancer
2192	HSQFE72	Cancer
2193	HSQFE76	Cancer
2194	HSQFV12	Cancer
2195	HSRAA81	Cancer
2196	HSRAO56	Cancer
2197	HSRAV28	Digestive, Musculoskeletal
2198	HSRDM56	Cancer
2199	HSRDW57	Cancer
2200	HSREC72	Immune/Hematopoietic, Musculoskeletal
2201	HSREG42	Cancer
2202	HSRFD18	Cancer
2203	HSRGZ11	Cancer
2204	HSRHB59	Cancer
2205	HSSAN03	Cancer
2206	HSSCC66	Musculoskeletal
2207	HSSDI13	Musculoskeletal
2208	HSSDQ20	Musculoskeletal, Neural/Sensory
2209	HSSDX38	Musculoskeletal
2210	HSSD57	Cancer
2211	HSSSEL28	Cancer
2212	HSSFP88	Cancer
2213	HSSGS62	Musculoskeletal, Reproductive
2214	HSSJA23	Cancer
2215	HSSJF26	Musculoskeletal
2216	HSSJF96	Musculoskeletal
2217	HSSJM47	Cancer
2218	HSSJW30	Cancer
2219	HSSJW30	Cancer
2220	HSSJW30	Cancer
2221	HSSMY35	Cancer
2222	HSTAL93	Connective/Epithelial
2223	HSTBG23	Connective/Epithelial
2224	HSUAF06	Immune/Hematopoietic
2225	HSUBX67	Immune/Hematopoietic
2226	HSUSB73	Immune/Hematopoietic, Reproductive
2227	HSVAC05	Cancer
2228	HSVAE42	Connective/Epithelial, Neural/Sensory
2229	HSVAL83	Cancer

2278	HTEDT87	Cancer
2279	HTEDX05	Cancer
2280	HTEEC19	Cancer
2281	HTEGH03	Cancer
2282	HTEGH03	Cancer
2283	HTEGS48	Reproductive
2284	HTEGY81	Cancer
2285	HTEHB11	Reproductive
2286	HTEHB49	Immune/Hematopoietic, Reproductive
2287	HTEHS91	Cancer
2288	HTEHV60	Reproductive
2289	HTEHW80	Reproductive
2290	HTEID25	Reproductive
2291	HTEIJ23	Cancer
2292	HTEIM62	Digestive, Immune/Hematopoietic, Reproductive
2293	HTEIV33	Reproductive
2294	HTEIV65	Reproductive
2295	HTEJC50	Reproductive
2296	HTEJD20	Cancer
2297	HTEJD61	Reproductive
2298	HTEJF31	Reproductive
2299	HTEJ29	Reproductive
2300	HTEJL16	Reproductive
2301	HTEJP65	Cancer
2302	HTEJY20	Cancer
2303	HTEKD35	Reproductive
2304	HTEKP82	Cardiovascular, Mixed Fetal, Reproductive
2305	HTEKV69	Reproductive
2306	HTEKZ52	Reproductive
2307	HTEQG28	Immune/Hematopoietic, Reproductive
2308	HTFOB75	Cancer
2309	HTGAA35	Immune/Hematopoietic
2310	HTGAD74	Immune/Hematopoietic, Reproductive
2311	HTGAP05	Immune/Hematopoietic, Neural/Sensory
2312	HTGAQ29	Immune/Hematopoietic
2313	HTGAR21	Immune/Hematopoietic
2314	HTGAS70	Cancer
2315	HTGAT65	Immune/Hematopoietic, Neural/Sensory, Reproductive
2316	HTGAU17	Immune/Hematopoietic
2317	HTGBF47	Immune/Hematopoietic
2318	HTGBK95	Cancer
2319	HTGCC01	Immune/Hematopoietic
2320	HTGCK43	Cancer
2321	HTGDS43	Immune/Hematopoietic, Neural/Sensory
2322	HTGDS92	Cancer
2323	HTGEX34	Digestive, Immune/Hematopoietic
2324	HTGFM31	Immune/Hematopoietic

2325	HTGGM37	Digestive, Immune/Hematopoetic
2326	HTGGN22	Immune/Hematopoetic
2327	HTHAA41	Cancer
2328	HTHBC58	Digestive, Immune/Hematopoetic
2329	HTHBO72	Cancer
2330	HTHBQ29	Immune/Hematopoetic
2331	HTHBT76	Cancer
2332	HTHBZ91	Immune/Hematopoetic
2333	HTHCA30	Cancer
2334	HTHCM60	Immune/Hematopoetic
2335	HTHDB20	Immune/Hematopoetic
2336	HTHDF45	Immune/Hematopoetic
2337	HTHDF86	Immune/Hematopoetic
2338	HTHDH18	Immune/Hematopoetic
2339	HTHDP65	Cancer
2340	HTHDT25	Immune/Hematopoetic
2341	HTHDV50	Immune/Hematopoetic
2342	HTJMA64	Cancer
2343	HTJMJ72	Connective/Epithelial, Immune/Hematopoetic
2344	HTLAD74	Reproductive
2345	HTLAF81	Cancer
2346	HTLBF46	Cancer
2347	HTLBF63	Cancer
2348	HTLCX82	Cancer
2349	HTLDD89	Reproductive
2350	HTLDN34	Reproductive
2351	HTLDP19	Cancer
2352	HTLDY30	Cancer
2353	HTLEJ24	Cancer
2354	HTLEJ75	Cancer
2355	HTLEJ75	Cancer
2356	HTLEP55	Cancer
2357	HTLEV80	Cancer
2358	HTLEZ57	Cancer
2359	HTLFA90	Cancer
2360	HTLGL33	Reproductive
2361	HTLGQ25	Reproductive
2362	HTLGS72	Reproductive
2363	HTLGY50	Cancer
2364	HTLHN86	Cancer
2365	HTLHN86	Cancer
2366	HTLHN86	Cancer
2367	HTLHN86	Cancer
2368	HTLIW29	Cancer
2369	HTLJC15	Cancer
2370	HTNAL14	Cancer
2371	HTNAL34	Endocrine, Reproductive
2372	HTNB15	Cancer
2373	HTNB15	Cancer
2374	HTNB15	Cancer
2375	HTNB15	Cancer
2376	HTOAC65	Immune/Hematopoetic
2377	HTOAE47	Immune/Hematopoetic
2378	HTOAK03	Cancer

2424	HTTAH05	Reproductive
2425	HTTAP37	Immune/Hematopoietic, Reproductive
2426	HTTBJ38	Cancer
2427	HTTDB11	Cancer
2428	HTTDG27	Reproductive
2429	HTTDN24	Cancer
2430	HTTDO33	Cancer
2431	HTTDT67	Cancer
2432	HTTEO25	Cancer
2433	HTTEP11	Neural/Sensory, Reproductive
2434	HTTES77	Cancer
2435	HTTFD29	Reproductive
2436	HTTFG15	Cancer
2437	HTWAM19	Immune/Hematopoietic
2438	HTWBF58	Immune/Hematopoietic
2439	HTWBO30	Cancer
2440	HTWBZ57	Cancer
2441	HTWCC10	Immune/Hematopoietic
2442	HTWCE14	Cancer
2443	HTWCT76	Digestive, Immune/Hematopoietic
2444	HTWDJ17	Cancer
2445	HTWDM89	Immune/Hematopoietic
2446	HTWEA05	Immune/Hematopoietic
2447	HTWEG06	Immune/Hematopoietic
2448	HTWEQ36	Cancer
2449	HTWFA21	Immune/Hematopoietic
2450	HTWFA88	Digestive, Immune/Hematopoietic
2451	HTWFM85	Cancer
2452	HTWFO43	Cancer
2453	HTWLG39	Cancer
2454	HTXAA20	Cancer
2455	HTXAD75	Cancer
2456	HTXAR92	Immune/Hematopoietic
2457	HTXBS38	Cancer
2458	HTXBU88	Immune/Hematopoietic
2459	HTXCP27	Cancer
2460	HTXCU30	Excretory, Immune/Hematopoietic
2461	HTXCV44	Immune/Hematopoietic, Neural/Sensory
2462	HTXDJ21	Immune/Hematopoietic
2463	HTXDJ75	Digestive, Immune/Hematopoietic, Mixed Fetal
2464	HTXDJ85	Immune/Hematopoietic
2465	HTXDK09	Cancer
2466	HTXDO17	Immune/Hematopoietic, Neural/Sensory, Respiratory
2467	HTXDT72	Cancer
2468	HTXDU08	Cancer
2469	HTXDZ68	Immune/Hematopoietic, Musculoskeletal
2470	HTXEN33	Immune/Hematopoietic, Reproductive

2471	HTXES13	Cancer
2472	HTXFD86	Cancer
2473	HTXGK12	Cancer
2474	HTXGL32	Immune/Hematopoietic
2475	HTXJD08	Digestive, Immune/Hematopoietic
2476	HTXJD85	Immune/Hematopoietic
2477	HTXJE12	Cancer
2478	HTXJ159	Cancer
2479	HTXJ192	Cancer
2480	HTXJM94	Cancer
2481	HTXJV54	Digestive, Immune/Hematopoietic, Reproductive
2482	HTXJW06	Cancer
2483	HTXKB57	Cancer
2484	HTXKH22	Immune/Hematopoietic
2485	HTXKH40	Cancer
2486	HTXKK76	Immune/Hematopoietic
2487	HTXKL53	Cancer
2488	HTXKS11	Immune/Hematopoietic
2489	HTXKS27	Cancer
2490	HTXLC05	Digestive, Immune/Hematopoietic, Respiratory
2491	HTXLC45	Immune/Hematopoietic
2492	HTXLT36	Cancer
2493	HTXLY94	Cancer
2494	HTXNV66	Cancer
2495	HTXOL30	Immune/Hematopoietic
2496	HTXOW27	Cancer
2497	HTXPD86	Cancer
2498	HTXPT57	Digestive, Immune/Hematopoietic
2499	HTYSJ88	Endocrine, Immune/Hematopoietic
2500	HUDBE20	Reproductive
2501	HUDBK47	Immune/Hematopoietic, Reproductive
2502	HUFAB57	Cancer
2503	HUFAL17	Digestive
2504	HUFAO92	Digestive, Reproductive
2505	HUFAO94	Cancer
2506	HUFAP33	Cancer
2507	HUFAU71	Cancer
2508	HUFBK95	Digestive, Reproductive
2509	HUFBP77	Cancer
2510	HUFBV62	Cancer
2511	HUFBY96	Cancer
2512	HUFEN72	Digestive
2513	HUFEF79	Cancer
2514	HUKAD46	Endocrine, Immune/Hematopoietic, Reproductive
2515	HUKAI28	Cardiovascular, Reproductive
2516	HUKAO50	Cancer

2517	HUKCS86	Cancer
2518	HUKCS86	Cancer
2519	HUKEA22	Cancer
2520	HUKEL79	Cancer
2521	HUKEX37	Reproductive
2522	HUKFC71	Cancer
2523	HUKFV37	Cancer
2524	HUKFY09	Cancer
2525	HUNAL39	Reproductive
2526	HUSAO04	Cancer
2527	HUSAO04	Cancer
2528	HUSCA09	Cancer
2529	HUSCJ01	Cancer
2530	HUSGB23	Cancer
2531	HUSGJ09	Cardiovascular, Neural/Sensory
2532	HUSGQ57	Cancer
2533	HUSGY15	Cancer
2534	HUSHD41	Cancer
2535	HUSHK65	Cancer
2536	HUSIK45	Cancer
2537	HUSIO57	Cancer
2538	HUSIP17	Cardiovascular
2539	HUSIR70	Cancer
2540	HUSXP50	Cardiovascular, Reproductive
2541	HUSXY93	Cancer
2542	HUSYG26	Cancer
2543	HUVCQ68	Cancer
2544	HUVDG58	Digestive, Immune/Hematopoetic, Reproductive
2545	HUVEG53	Cancer
2546	HWAAH11	Cancer
2547	HWAAQ28	Cancer
2548	HWAAQ60	Cancer
2549	HWABR43	Digestive, Immune/Hematopoetic
2550	HWACH06	Cancer
2551	HWACZ33	Digestive, Immune/Hematopoetic, Reproductive
2552	HWADV90	Immune/Hematopoetic
2553	HWAEBS2	Cancer
2554	HWBAK71	Immune/Hematopoetic
2555	HWBBU75	Cancer
2556	HWBCN81	Immune/Hematopoetic, Reproductive
2557	HWBCP16	Immune/Hematopoetic
2558	HWBCX93	Cancer
2559	HWBEF34	Immune/Hematopoetic, Neural/Sensory
2560	HWFB23	Cancer
2561	HWFB140	Connective/Epithelial, Digestive, Immune/Hematopoetic
2562	HWHGV77	Connective/Epithelial
2563	HWHGW09	Cancer
2564	HWHHA21	Connective/Epithelial

2565	HWHPU44	Connective/Epithelial
2566	HWHRC51	Cancer
2567	HWLAT50	Cancer
2568	HWLBO67	Digestive
2569	HWLGP26	Cancer
2570	HWLHO31	Cardiovascular, Digestive
2571	HWLIL31	Cancer
2572	HWLJN08	Cancer
2573	HWLRE03	Cancer
2574	HWTAM38	Digestive, Immune/Hematopoetic, Reproductive
2575	HWTAW58	Cancer
2576	HWTBB42	Cancer
2577	HWTBC75	Cancer
2578	HWTBI25	Cancer
2579	HWTBL86	Cancer
2580	HWTBX66	Cancer
2581	HYAAC74	Immune/Hematopoetic, Musculoskeletal, Reproductive
2582	HYAAD61	Immune/Hematopoetic
2583	HYACC21	Immune/Hematopoetic
2584	HYBAP75	Cancer
2585	HYBAQ24	Cancer
2586	HYBAW56	Musculoskeletal
2587	HYBBD81	Musculoskeletal

TABLE 2

Clone ID No:Z	Contig ID:	SEQ ID NO:X	Analysis Method	PFam/NR Description	PFam/NR Accession Number	Score/Percent Identity	NT From	NT To
H2CBD20	570796	11	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q14288 Q14288	58% 52%	738 987	988 1244
H2CBH91	826669	12	blastx.2	CDNA FLJ20357 H1S, CLONE HEP16545.	sp Q9NXXA3 Q9NXXA3	99% 100% 78% 63% 37% 34% 31% 45% 45%	182 3 603 133 380 197 392 260 693	643 125 758 222 643 352 583 322 758
H2LBA54	684290	13	blastx.2	APOPTOSIS SPECIFIC PROTEIN (DJ134E1S.2) (APOPTOSIS SPECIFIC PROTEIN).	sp Q60875 Q60875	100%	172	996
H2LBB09	658667	14	blastx.2	HSPC210.	sp Q9P0R6 Q9P0R6	97% 95%	73 465	477 536
H2LBB09	830636	15	blastx.2	HSPC210.	sp Q9P0R6 Q9P0R6	97% 100%	112 504	516 575
H2MBF60	695714	18	blastx.2	transcription factor TF11D 32K chain TAF1132 - human	pir J39141 J39141	100%	163	954
H6EEA48	847111	20	blastx.2	54TMP.	sp Q95070 Q95070	57% 53%	478 24	933 482
H6EEN71	829201	21	blastx.2	PEROXISOME ASSEMBLY PROTEIN PEX10 (PEROXIN-10).	sp Q60683 PEXA_HUMAN	100%	1943	1779
H6EE005	865424	22	HMMER 2.1.1	PFAM: EF hand	PF00036	25	328	414
			blastx.2	hypothetical protein	pir J17225 J17225	97%	265	522

HACBJ11	797625	28	blastx.2	DKFZp564C246.1 - human band-6-protein - human	pir S60712 S60712	100%	8	139
HACBS86	603946	29	WUblastx.6 4	(BC000764) hypothetical protein FLJ10342 [Homo sapiens]	sp AAH00764.1 AAH00764	66%	89	682
HADCL19	599065	35	blastx.2	CDNA: FLJ21463 fts, clone COL04765.	sp BAB15071 BAB15071	57%	1082	762
HADDC04	601695	37	blastx.2	Hypothetical 8.0 kDa protein.	sp BAB12345 BAB12345	57%	2522	2379
HADDP51	853356	39	HMMER 2.1.1	PFAM: TBC domain	PF00566	52.3	357	509
			blastx.2	CDNA: FLJ22474 fts, clone HRC10568.	sp BAB15368 BAB15368	99%	12	701
HADET62	607615	41	blastx.2	probable polyprotein-related protein 4 - rat	pir S21348 S21348	35% 46% 45% 31%	590 808 657 217	330 668 592 104
HADFY08	799507	42	blastx.2	CDNA FLJ20367 fts, CLONE HEP18101.	sp Q9NX94 Q9NX94	98%	663	1109
HADFY22	861628	44	blastx.2	CDNA: FLJ21463 fts, clone COL04765.	sp BAB15071 BAB15071	72%	611	459
HADFB84	668229	45	blastx.2	PRO2550.	sp AAG35515 AAG35515	72%	758	1009
HADFD10	843934	47	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	db JBAB21918.1	52% 61% 55%	1200 1267 1325	1024 1205 1254
HADFK11	637485	48	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	db JBAB21918.1	65%	1038	919
HADFW20	599066	50	blastx.2	CDNA FLJ12159 fts, clone NT2RP2001.347.	sp BAB14259 BAB14259	83%	1065	823
HADFX10	741054	51	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	59% 54% 52% 40% 40% 47% 35% 62%	972 917 972 1194 1019 1267 1221 726	715 654 772 850 850 1040 808 646

HADFY80	654831	52	blastx.2	CDNA FLJ13153 fis, clone NT2RP3003409, weakly similar to 1	sp BAB14468 BAB14468	40% 31% 57% 45% 42% 43% 94%	1270 1278 1022 726 1118 713 2	1160 940 939 628 981 645 169
HADXA10	772423	55	blastx.2	CGI-149 PROTEIN.	sp Q9Y3E7 Q9Y3E7	95% 78% 100% 159.5	238 132 43 186	798 311 201 440
HADXA10	859777	56	blastx.2	CGI-149 PROTEIN.	sp Q9Y3E7 Q9Y3E7			
HAFBB15	608180	57	HMMER 2.1.1	PFAM: RNA 3'-terminal phosphate cyclase	PF01137			
			blastx.2	RNA-3'-phosphate cyclase (EC 6.5.1.4) 1 [validated] - human sapiens	pi T48844 T48844	99%	6	446
HAGAB62	588471	59	blastx.2	(AF267864) DC42 [Homo sapiens]	gb AAC44733.1 AF267864.1	98%	8	232
HAGAB83	823044	60	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	77% 59%	1838 1597	1599 1517
HAGAF75	561933	62	blastx.2	(AB055298) hypothetical protein [Macaca fascicularis]	dh j BAB21923.1	71%	1199	1324
HAGAK40	731929	63	blastx.2	CDNA FLJ20378 FIS, CLONE KAJA0536.	sp Q9NX85 Q9NX85	75% 64%	470 704	661 838
HAGAZ36	564230	65	blastx.2	pro-pol-dUTPase polypeptide - murine endogenous retrovirus ERV-L (fragment)	pi T29097 T29097	39% 50% 66% 97%	572 753 613 509	27 613 578 619
HAGBL31	679582	67	blastx.2	ORIGIN RECOGNITION COMPLEX SUBUNIT 2.	sp Q9NX17 Q9NX17	78%	1533	1249
HAGBO09	853357	68	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	75% 63%	550 348	353 241
HAGBO12	601431	69	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dh j BAB21918.1			
HAGBS89	846292	71	blastx.2	CDNA FLJ20378 FIS, CLONE KAJA0536.	sp Q9NX85 Q9NX85	64% 59% 70%	1173 1173 1227	856 982 1198

HAGBV06	701966	72	blastx.2	(AL136812) hypothetical protein [Homo sapiens]	emb CAB66746.1	70%	1228	1199
HAGBV25	838174	73	blastx.2	CDNA: FLJ21040 fis, clone CAE10642.	sp BAB14965 BAB14965	99%	1	1644
HAGBV29	837203	74	blastx.2	PRO2550.	sp AAG35515 AAG35515	71%	2069	1761
						56%	749	955
						71%	439	585
						60%	309	455
						48%	732	836
						48%	648	731
HAGCC87	638587	75	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	60%	796	984
						66%	983	1114
						35%	680	847
HAGCI69	560596	77	blastx.2	PRO478 PROTEIN.	sp Q9UI59 Q9UI59	52%	1015	1185
HAGCZ70	747697	79	blastx.2	CDNA FLJ20378 FIS, CLONE KAI1A0536.	sp Q9NX85 Q9NX85	73%	1342	1369
HAGDC73	724860	80	blastx.2	CG12367 PROTEIN.	sp Q9V662 Q9V662	35%	473	1006
HAGDI53	821315	84	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	db BAB21918.1	50%	1782	1582
						70%	1873	1781
						46%	1796	1713
						66%	1673	1629
HAGDIL51	637488	86	blastx.2	CDNA FLJ14310 fis, clone PLACE3000271.	sp BAB14900 BAB14900	71%	115	11
						46%	1542	1542
						44%	1361	1481
HAGDO70	812393	87	blastx.2	platelet-activating factor acetylhydrolase (EC 3.1.1.-) gamma chain - human	pir C4246 C4246	100%	185	877
HAGDT30	589514	88	blastx.2	PROTEIN ASSOCIATED WITH MYC.	sp O75592 O75592	98%	1125	2006
						88%	403	1131
						100%	11	280
						30%	250	933
						29%	502	867

HAGDW68	835631	89	blastx.2	NEUREXOPHILIN 1 PRECURSOR (FRAGMENT). DYNEIN LIGHT INTERMEDIATE CHAIN 2, CYTOSOLIC (LIC3355) 1 CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q61200 NPH1_MOUSE E sp O43237 DYJ2_HUMAN N	24% 52% 27% 45% 47% 45%	11 1945 1761 1945 1945 1445	208 2007 1976 2007 2007 1504
HAGEK86	748222	92	blastx.2	NEUREXOPHILIN 1 PRECURSOR (FRAGMENT). DYNEIN LIGHT INTERMEDIATE CHAIN 2, CYTOSOLIC (LIC3355) 1 CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q61200 NPH1_MOUSE E sp O43237 DYJ2_HUMAN N	99% 100% 96%	2 390 1066	385 470 1617
HAGEF30	604478	93	blastx.2	NEUREXOPHILIN 1 PRECURSOR (FRAGMENT). DYNEIN LIGHT INTERMEDIATE CHAIN 2, CYTOSOLIC (LIC3355) 1 CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q61200 NPH1_MOUSE E sp O43237 DYJ2_HUMAN N	75% 72% 59% 55%	809 636 108 22	627 517 722 123
HAGEQ67	838445	95	blastx.2	NEUREXOPHILIN 1 PRECURSOR (FRAGMENT). DYNEIN LIGHT INTERMEDIATE CHAIN 2, CYTOSOLIC (LIC3355) 1 CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q61200 NPH1_MOUSE E sp O43237 DYJ2_HUMAN N	99% 100% 96%	2 390 1066	385 470 1617
HAGEU26	608183	96	blastx.2	NEUREXOPHILIN 1 PRECURSOR (FRAGMENT). DYNEIN LIGHT INTERMEDIATE CHAIN 2, CYTOSOLIC (LIC3355) 1 CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q61200 NPH1_MOUSE E sp O43237 DYJ2_HUMAN N	75% 72% 59% 55%	809 636 108 22	627 517 722 123
HAGFM58	604536	103	blastx.2	NEUREXOPHILIN 1 PRECURSOR (FRAGMENT). DYNEIN LIGHT INTERMEDIATE CHAIN 2, CYTOSOLIC (LIC3355) 1 CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q61200 NPH1_MOUSE E sp O43237 DYJ2_HUMAN N	99% 100% 96%	2 390 1066	385 470 1617
HAGFT48	780112	104	blastx.2	NEUREXOPHILIN 1 PRECURSOR (FRAGMENT). DYNEIN LIGHT INTERMEDIATE CHAIN 2, CYTOSOLIC (LIC3355) 1 CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q61200 NPH1_MOUSE E sp O43237 DYJ2_HUMAN N	75% 72% 59% 55%	809 636 108 22	627 517 722 123
HAGFU31	751713	105	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp Q60448 O60448	66% 66% 67% 68% 78% 52% 44% 65% 45%	1263 1084 1229 1083 1029 1024 1015 997 1026 1093	967 1084 1229 1083 1029 1024 953 896 967 1028
HAGFW13	634611	106	blastx.2	retrovirus-related reverse transcriptase pseudogene - slow loris	sp P25313 GNT_RL1	68% 45% 69%	307 542 453	164 300 385

HAGHE85	838059	107	blastx.2	CDNA FLJ20489 FIS. CLONE KAT08285.	sp Q9NXI7 Q9NXI7	65%	1697	1362
HAHSD51	847014	112	blastx.2	CG9350 PROTEIN.	sp Q9W2N2 Q9W2N2	35% 40%	203 105	490 170
HAIBV91	852223	115	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	57% 40%	636 1911	899 1955
						58% 50% 68%	1380 1229 1243	1243 1187 1187
HAICE62	834523	116	blastx.2	Mob1 protein.	sp BAB19058 BAB19058	56%	1155	850
HAICL90	637491	117	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	100%	203	438
HAIDP45	847015	119	blastx.2	CDNA: FLJ21313 fis. clone COL02176.	sp BAB15045 BAB15045	63%	722	1096
HAJAB88	780114	120	EMMER 2.1.1	PFAM: Ribosomal protein L34	PF00468	97%	986	401
			blastx.2	ribosomal protein L34-like protein [imported] - fission yeast (Schizosaccharomyces pombe)	pir T50348 T50348	32.3	276	401
HANKC93	847018	126	blastx.2	CDNA FLJ12759 fis. clone NT2RP2001347.	sp BAB14259 BAB14259	54%	249	656
HAPAD35	840584	127	blastx.2	CDNA FLJ11786 fis. clone HEMBA1006036.	sp BAB13911 BAB13911	57% 70% 81%	754 648 806	589 759
HAPBR13	609976	128	blastx.2	CDNA: FLJ21918 fis. clone HEP04006.	sp BAB15173 BAB15173	49% 68%	1401 1198	1171 1067
						40% 52% 36% 63% 77%	424 95 273 81 84	762 277 452 113 110
HAPB009	762803	129	blastx.2	NEUROPATHY TARGET ESTERASE.	sp Q60859 Q60859	66% 70%	78 84	113 545
HAPN133	835554	132	blastx.2	(AF222743) Sec61 alpha-1 [Mus musculus]	gb AACG44252.1 AF22274 3_1	100%	3	1230
						98%	157	1403

HAPNL62	790340	133	WUblastx.6 4	(AK000734) unnamed protein product [Homo sapiens]	dbj BAA91348.1	99%	937	1977
HAPNO50	834384	134	blastx.2	hypothetical protein DKEZp564N123.1 - human (fragment)	pir T08701 T08701	97%	323	883
HAPPW83	847020	136	blastx.2	PRO2550.	sp AAG35515 AAG35515	88%	3	29
HAPRK55	735887	143	blastx.2	CDNA: FLJ1463 fis. clone COL04765.	sp BAB15071 BAB15071	77%	451	627
HAPSH37	847021	144	blastx.2	PRO2550.	sp BAB15071 BAB15071	77%	626	757
HAQBY85	832384	146	blastx.2	CG15439 PROTEIN.	sp AAG35515 AAG35515	69%	1367	1041
HARAE26	560598	150	blastx.2	CDNA: FLJ1394 fis. clone COL05536.	sp BAB15056 BAB15056	84%	199	68
HARAT69	769389	151	blastx.2	CG1582 PROTEIN.	sp Q9VQZ8 Q9VQZ8	75%	63	28
HARAZ81	832380	152	blastx.2	HSPC241.	sp Q9VQZ8 Q9VQZ8	68%	17	358
HASAU26	845848	153	blastx.2	CDNA: FLJ12984 fis. clone NT2RP3000047, weakly similar to 1	sp Q9PNT7 Q9PNT7	35%	925	1503
					sp BAB14372 BAB14372	28%	361	1074
						98%	188	829
						98%	820	1425
						94%	3	107
						95%	132	194
						100%	98	133
						40%	2405	2479
HASAY07	834511	155	blastx.2	catalase (EC 1.1.1.6) - Campylobacter jejuni	pir I40767 I40767	96%	263	177
HATAE01	654834	156	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	74%	811	647
						91%	645	574
						71%	569	507
HATVAL05	847023	158	blastx.2	MDM2 binding protein.	sp CAC07970 CAC07970	77%	10	876
HATCF80	780460	161	blastx.2	ADP-RIBOSYLATION FACTOR-DIRECTED GTPASE ACTIVATING	sp Q9Z2B6 Q9Z2B6	94%	9	479

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HATDU01	847028	171	blastx.2	PRO2550.	sp AAG35515 AAG35515	66% 59%	1198 1299	974 1204
HATDW05	566849	172	blastx.2	SIMILAR TO RING-H2 FINGER PROTEIN RHA1A.	sp Q9SNH1 Q9SNH1	96% 92% 74% 88% 100%	547 555 556 553 557	473 481 464 479 492
HAUCC84	830672	177	blastx.2	ANTI-DEATH PROTEIN.	sp O75535 O75535	98% 91% 47% 28%	250 259 105 25	510 259 254 246
HAWAS41	877621	178	blastx.2	CDNA: FLJ21463 fis. clone COL04765.	sp BAB15071 BAB15071	63% 46% 66%	1001 838 768	813 692 733
HAWBA65	542056	179	blastx.2	(AY012159) virion-associated nuclear-shuttling protein [Mus musculus]	gb AAG42155.1	100%	28	111
HBAHG64	801884	180	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q14287 Q14287	37%	810	568
HBBBA42	841010	184	blastx.2	HRHFB2072 PROTEIN (FRAGMENT).	sp Q9UIL1 Q9UIL1	58% 57%	3 6	263 269
HBCAK10	810227	188	blastx.2	dermal gland protein APEG precursor - African clawed frog	pir S07498 SKXL-AG	30% 31%	580 520	1509 1119
HBCAQ48	525002	190	blastx.2	ADA3-LIKE PROTEIN.	sp O75528 O75528	100%	10	345
HBCBA14	838123	193	blastx.2	CDNA: FLJ22976 fis. clone KAT11222 (Fragment).	sp BAB15513 BAB15513	80% 93% 56% 100%	647 671 577 671	754 760 753 751
HBOBE75	897455	194	blastx.2	MITOCHONDRIAL IMPORT INNER MEMBRANE TRANSLOCASE SUBUNIT 1	sp O60830 H7B_HUMA N	86% 97%	672 98	761 325
HBHAA53	603183	199	blastx.2	UNNAMED FORTEIN PRODUCT.	sp Q9N083 Q9N083	66% 65%	609 439	415 326
HBIJA143	840354	200	blastx.2	PRO0478 PROTEIN.	sp Q9UI59 Q9UI59	76%	1109	1225

HBI1A58	596805	201	blastx.2	CDNA: FLJ21463 tis. clone COL04765.	sp BAB1507 BAB15071	67% 77%	1504 1335 1268	1337 1270 1188
HBI1F26	845743	203	blastx.2	CGF-15 PROTEIN	sp Q9Y304 Q9Y304	66% 99%	313 945 1298	945 1298 1298
HBI1Q69	580807	206	blastx.2	MITOGEN-ACTIVATED ZINC FINGER.	sp Q62977 Q62977	100%	721 668	810 724
HBI1R38	612783	207	blastx.2	CDNA FLJ20489 FIS. CLONE KAT08285.	sp Q9NX17 Q9NX17	84% 73%	823 824 871	503 824 801
HBI1S33	590280	209	blastx.2	Hypothetical 15.8 kDa protein.	sp AAG17270 AAG17270	63% 53%	581 1418	459 1380
HBI1Z20	688861	211	blastx.2	ACIDIC NUCLEOPLASMIC DNA-BINDING PROTEIN 1 (AND-1).	sp O75717 O75717	72% 99%	1421 229	1389 603
HBI1CB80	637516	212	blastx.2	NADH-UBIQUINONE OXIDOREDUCTASE 20 KDA SUBUNIT PRECURSOR 1.1	sp O75251 NUKM_HUMAN	98% 90%	18 545	557 643
HBI1AC40	841235	213	blastx.2	CHROMOSOME 16 OPEN READING FRAME 5.	sp Q9P112 Q9P112	94% 89% 78%	108 632 117 8	632 632 178 178
HBI1AV56	603529	214	blastx.2	CDNA FLJ20489 FIS. CLONE KAT08285.	sp Q9NX17 Q9NX17	62%	777	493
HBI1BR40	581104	217	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	db JBAB21918.1	63% 45%	655 837	849 932
HBI1CH46	609859	218	blastx.2	conserved hypothetical protein PA5065 [imported] - Pseudomonas aeruginosa (strain PAOI)	pi D83014 D83014	83% 70% 28%	900 1070 852	1 900 379
HBI1CS26	821682	220	blastx.2	(AL136844) hypothetical protein [Homo sapiens]	emb CAB66778.1	98%	227	1636
HBI1DR83	600395	224	blastx.2	POL/ENV ORF.	sp Q14273 Q14273	62% 68% 69% 60% 41%	14 718 544 813 1223	556 621 621 902 1291
HBI1EI 21	866158	226	blastx.2	ZINC FINGER PROTEIN 148	sp Q91QR1 Z148_HUMAN	99%	807	2063

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HBHJH84	836097	227	blastx.2	ZBP-89).	sp Q9JLM25 Q9JLM25	34%	118	921
HBHJH83	610259	236	HMME 2.1.1	TI0022.22. PFAM: ENV polypeptide (coat protein)	PT00429	40.5	207	389
			blastx.2	ENVELOPE POLYPEPTIDE (FRAGMENT).	sp Q61533 Q61533	47%	177	365
						45%	64	174
						85%	2	61
HBHJH14	793391	241	blastx.2	CDNA FLJ13968 fis. clone Y79AA1001493, weakly similar to 1	sp BAB14789 BAB14789	100%	134	871
HBHJA26	743181	242	blastx.2	GAG POLYPEPTIDE (FRAGMENT).	sp Q9PZ45 Q9PZ45	41%	665	408
HBHJX02	612069	243	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	db JBAB21918.1	67%	723	598
HBHND04	837242	245	HMME 2.1.1	PFAM: Bacterial muT protein	PF00293	26.2	-360	-479
			WUblastx.6 4	(AX042212) unnamed protein product [Homo sapiens]	emb CAC17067.1	91%	309	1352
HBHND57	612785	246	blastx.2	CGI17741 PROTEIN.	sp Q9VCB4 Q9VCB4	65%	1	318
HBKDF66	827276	247	blastx.2	PRO0117 PROTEIN.	sp Q9UI85 Q9UI85	61%	1780	1688
						64%	1689	1639
HBKEE60	793788	249	blastx.2	pro-pol-dUTPase polypeptide - murine endogenous retrovirus ERV-L (fragment)	pi T29097 T29097	62%	273	620
						64%	97	204
						39%	3	128
HBKEI41	827278	250	blastx.2	DJ881122.2 (novel protein)	sp CAC04189 CAC04189	32%	71	739
				(Fragment).		98%	2197	2709
HBMBD51	842176	251	blastx.2	(AL359614) hypothetical protein [Homo sapiens]	emb CAB94884.1	97%	127	1137
HBMBD73	839564	252	blastx.2	MAP kinase 1 (EC 2.7.1.1) - human	pi JQ1400 JQ1400	80%	60	182
HBMBM17	637518	254	blastx.2	CDNA: FLJ21394 fis. clone COL03536.	sp BAB15056 BAB15056	67%	1115	840
						100%	840	823
HBMC159	608668	255	blastx.2	CDNA: FLJ21463 fis. clone COL04765.	sp BAB15071 BAB15071	60%	796	608
						45%	630	472
HBMCMP6	821318	256	blastx.2	CDNA: FLJ21394 fis. clone	sp BAB15056 BAB15056	55%	2177	1926

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HBMUR39	647594	267	blastx.2	CDNA: FLJ21394 fis. clone COL0536.	sp BAB15056 BAB15056	82%	705	821
HBMWC39	523713	270	blastx.2	CDNA: FLJ21463 fis. clone COL04765.	sp BAB15071 BAB15071	82%	705	821
HBMWSS2	872553	272	blastx.2	CDNA: FLJ21463 fis. clone COL04765.	sp BAB15071 BAB15071	82%	705	821
HBMXG01	689522	274	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp Q9NX85 Q9NX85	82%	705	821
HBMXG76	580812	275	blastx.2	probable phosphodiesterase 1 (EC 3.1.4.1) - human (fragment)	pir T43461 T43461	82%	705	821
HBMXM05	842283	276	blastx.2	NATURAL RESISTANCE-ASSOCIATED MACROPHAGE PROTEIN 2.	sp Q94801 Q94801	81%	326	487
HBMXW83	725335	277	blastx.2	glutamate--cysteine ligase (EC 6.3.2.2) heavy chain - human	pir H0611 H0611	90%	373	498
HBNAE74	637524	278	blastx.2	D162L5.7.1 (NOVEL PROTEIN (ISOFORM 1)).	sp Q9NU78 Q9NU78	100%	6	146
HBNAX16	843727	279	blastx.2	EG165H7.3 PROTEIN.	sp O46055 O46055	25%	363	2585
HBODK40	852382	281	blastx.2	AP-4 ADAPTOR COMPLEX BET A4 SUBUNIT.	sp Q9Y6B7 Q9Y6B7	23%	363	2492
HBODV76	866420	282	blastx.2	(AF333387) Kcl-like protein 23 [Homo sapiens]	gb AAAG52886.1 AF333387_1	99%	674	1741
HBPAP39	850786	284	blastx.2	CDNA FLJ20378 FIS, CLONE	sp Q9NX85 Q9NX85	95%	28	696
						96%	808	1905
						100%	71	475
						91%	474	902
						50%	1262	849

HBQAC72	799512	286	blastx.2	KAJA0536. transcription factor znf6 - human	pirjS25409S25409	90% 33% 31% 30% 31%	2072 1844 2024 1757 1844	1110 1227 1215 1194 1401
HBSAJ63	848683	288	blastx.2	ZINC FINGER PROTEIN 289.	sp Q9J1H1 Q9J1H1	94%	11	406
HBSDD24	839802	290	blastx.2	N-ACETYLGLUCOSAMINE KINASE PROTEIN (EC 2.7.1.59).	sp Q9J1H1 Q9J1H1	100%	886	1251
HBWBBD25	800765	291	blastx.2	PUTATIVE RNA BINDING PROTEIN 1 (FRAGMENT).	sp O08872 O08872	33%	1473	574
HBXAS93	836513	292	blastx.2	SODIUM/HYDROGEN EXCHANGER 5 (NA(+)/H(+) EXCHANGER 5) (NHE-5).	sp Q14940 NAH5_HUM AN	83% 100% 90%	532 2 256	1137 238 321
HBXAW57	815650	294	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	56% 70%	1223 1288	1071 1229
HBXBM24	823353	296	blastx.2	CDNA FLJ12547 fis, clone NT2RM4000634.	sp BAB14123 BAB14128	46%	9	206
HBXBM78	812527	297	WUblastx.6 4	(AF113615) FH1/FH2 domain- containing protein FHOS [Homo sapiens]	gb AAD39906.1 AF11361 5_1	84% 28% 100% 97% 100% 42% 28% 55%	846 2503 1004 1903 2311 2184 1777 2520	259 2138 852 1046 2042 2122 1334 2248
HBXCD59	860439	298	blastx.2	(AF220037) tripartite motif protein TRIM9 isoform 1	gb AA053491.1 AF22003 7_1	99%	59	823
HBXCG08	628501	300	blastx.2	Hypothetical 14.2 kDa protein.	sp AAG17216 AAG17216	60% 51%	1872 1688	1687 1578
HBXCM52	799513	301	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	71% 82%	2424 2510	2212 2424
HBXCCQ03	589516	302	blastx.2	PTD009 (HSPC172).	sp Q9J296 Q9J296	100% 100%	17 382	382 672
HBXDN08	566765	306	blastx.2	SPROUTY 2.	sp Q43597 Q43597	100%	8	256

HBXND65	840021	307	blastx.2	PRO2550.	sp AAG35515 AAG35515	76%	1940	1641
HBXTFA04	842901	308	blastx.2	HSPC268 (FRAGMENT).	sp Q9P0B3 Q9P0B3	85%	309	533
HBXTFE64	838824	309	blastx.2	CDNA: FLJ1463 fts, clone COL04765.	sp BAB1507 BAB15071	58%	1646	1320
HBXTF72	688040	311	blastx.2	CDNA: FLJ21308 fts, clone COL02131.	sp BAB1504 BAB15044	99%	7	1167
HBXTFS31	815651	312	blastx.2	CDNA FLJ20489 fts, CLONE KAT08285.	sp Q9NX17 Q9NX17	63% 71% 75% 70%	430 417 455 451 1261	678 478 455 451 1261
HBXFW01	847001	313	HMMER 2.1.1	PFAM: Stathmin family	PF00836	185.7	266	523
			blastx.2	(AJ303455) RB3 protein [Homo sapiens]	emb CAC22254.1	100%	125	523
HBXGE12	745398	2599	WUblastx.6	(AF131851) Unknown [Homo sapiens]	gb AAD20061.1	100%	10	390
HBXGL91	901845	315	blastx.2	Orphan neurotransmitter transporter v7-3.	sp AAG41361 AAG41361	95% 100% 100%	389 949 10	979 1470 99
HBXGM24	821320	316	blastx.2	HYPOTHETICAL 76.2 KDA PROTEIN.	sp Q63779 Q63779	60% 45% 53% 57%	470 663 724 85	84 475 647 23
HCBAB34	847002	321	blastx.2	Hypothetical 12.9 kDa protein.	sp BAB12124 BAB12124	66% 41%	526 467	455 375
HCDAA02	653066	325	blastx.2	CG5327 PROTEIN.	sp Q9V817 Q9V817	31% 28%	486 655	256 476
HCDAP33	566794	326	blastx.2	ATP SYNTHASE G CHAIN, MITOCHONDRIAL (EC 3.6.1.34) (A1PASE 1	sp O75964 A1PN_HUM	76%	407	694
HCDAR40	654821	327	blastx.2	PRO1722.	sp Q9P195 Q9P195	63%	837	514
HCDAS02	896667	328	blastx.2	PUTATIVE EUKARYOTIC TRANSLATION INITIATION FACTOR 3.1	sp O75153 F3X_HUMA	99%	79	867
HCDBO32	831942	330	blastx.2	CG10343 PROTEIN.	sp Q9V160 Q9V160	45% 64%	251 709	709 801

HCDBW67	733860	331	blastx.2	DJ469A13.2 (novel protein) (Fragment).	sp CAC10099 CAC10099	97%	43	255
HCDCB03	571037	333	HMMER 2.1.1	PFAM: Zinc carboxypeptidase	PF00246	103.3	35	337
			blastx.2	carboxypeptidase H (EC 3.4.17.10) - mouse	pir S16383 S16383	93%	11	337
						77%	340	621
						79%	657	728
HCDC51	813504	334	blastx.2	CDNA FLJ13241 fis, clone OVARC1000557.	sp BAB14516 BAB14516	61%	1040	840
HCDCI42	847004	335	blastx.2	TANK BINDING KINASE TBK1 (NF-KB-ACTIVATING KINASE NAK).	sp Q9UHD2 Q9UHD2	100%	678	875
HCDDX81	603184	337	blastx.2	MICROVASCULAR ENDOTHELIAL DIFFERENTIATION PROTEIN 2.	sp Q35807 Q35807	95%	357	419
						100%	359	418
						87%	344	415
						90%	351	416
						35%	239	280
HCDDY28	892137	338	blastx.2	HYPOTHEITICAL PROTEIN (FRAGMENT).	sp Q14287 Q14287	60%	1312	1013
						55%	1458	1312
HCDEB19	587264	339	blastx.2	nuclear matrix protein NMP 238 - human	pir JEO334 JEO334	91%	823	1218
						99%	473	829
						98%	76	438
						100%	1218	1436
						93%	426	470
						50%	852	905
						31%	605	700
						31%	1335	1430
HCDES69	609997	341	blastx.2	CDNA FLJ13381 fis, clone PLACE1001010.	sp BAB14576 BAB14576	62%	687	553
						61%	524	423
HCEDI45	664481	342	blastx.2	WUGSC:HL DJ400N23.1 PROTEIN.	sp Q9UDU0 Q9UDU0	100%	10	279
HCETI53	843680	344	blastx.2	PRO2550.	sp AAG35515 AAG35515	63%	1455	1285
						64%	720	553
						75%	1286	1152
						80%	725	663
						45%	846	727
						50%	1203	1150

HCE1Y27	637329	345	blastx.2	COPINE VI (NEURONAL-COPINE) (N-COPINE).	sp Q95741 CNE6_HUMAN	69% 60% 47%	1456 568 826	1418 524 770
HCE1Y34	809084	346	blastx.2	PVA1 GENE.	sp Q26195 Q26195	52% 78% 52%	1717 1517 1523	1523 1434 1434
HCE2E47	886155	348	blastx.2	PRO2550.	sp AAG35515 AAG35515	72% 67% 67%	1254 1450 1533	1448 1533 1533
HCE2P90	737935	350	blastx.2	CDNA: FLJ21463 fs, clone COL04765.	sp BAB15071 BAB15071	53% 63% 63%	607 1876 1736	870 1736 1736
HCE3C46	737889	352	blastx.2	CDNA FLJ20378 FIS, CLONE	sp Q9NX85 Q9NX85	64% 82% 82%	738 973 1023	971 1023 1023
HCE3D58	873227	353	blastx.2	KAI1A0536.	emb CAC21677.1	100%	421	879
HCE3I04	845973	356	blastx.2	(AL512758) hypothetical protein [Homo sapiens] (AP000735) extensin protein-like [Arabidopsis thaliana]	dbj BAB01698.1	27%	652	41
HCE3N23	810211	357	blastx.2	hypothetical protein DKFZp586N1922.1 - human (fragment)	pir I17253 I17253	100% 55% 57%	1108 916 836	1590 1062 913
HCE3R01	834836	358	blastx.2	HISTONE ACETYLTRANSFERASE.	sp O95251 O95251	85% 85% 76%	68 6 6	1111 320 320
HCE3R01	841472	359	blastx.2	HISTONE ACETYLTRANSFERASE.	sp O95251 O95251	85% 76% 6	68 6 6	1111 320 320
HCE3R01	844574	360	blastx.2	HISTONE ACETYLTRANSFERASE.	sp O95251 O95251	85% 76% 6	68 6 6	1111 320 320
HCE3R46	844450	361	blastx.2	UNKNOWN (DERP2).	sp O95894 O95894	100%	131	1165
HCE4H32	843941	362	blastx.2	CDNA FLJ10769 FIS, CLONE NT2RP4000151.	sp Q9NVF5 Q9NVF5	94% 85% 97% 82% 37%	333 73 964 848 349	893 402 1104 964 429
HCE4H32	874256	363	blastx.2	HSPC237.	sp Q9P0P1 Q9P0P1	100% 100%	1325 1260	1765 1322

HCE4W88	792953	365	blastx.2	MLL SEPTIN-LIKE FUSION PROTEIN.	sp Q9Y5W4 Q9Y5W4	100%	3676	1973
HCE3B62	566864	366	blastx.2	NEURONAL TIREAD PROTEIN AD7C-NTP.	sp O60448 O60448	63% 70% 48% 64% 61% 58% 63% 58% 43% 36% 62% 44% 38% 56% 47% 45% 84% 63% 59% 61% 70% 50% 40% 34% 58% 40%	1673 1011 850 1056 1486 1653 1010 834 1441 1563 1563 1425 1553 1557 748 981 956 1028 810 1631 1500 1410 1505 1711 1598 725 823 1683 875 819 846 781 1632 1579 1420 1470 1496 1431 1023 943 820 725 778 728 1637 1711	1425 850 757 1486 834 1441 1563 1563 1425 1553 1557 748 981 956 1028 810 1631 1500 1410 1505 1711 1598 725 823 1683 875 819 846 781 1632 1579 1420 1470 1496 1431 1023 943 820 725 778 728 1637 1711
HCE5H86	847032	367	blastx.2	VW DOMAIN BINDING PROTEIN-1.	sp Q95637 Q95637	100% 83% 98%	1538 838 1317 1276 1539	2107 1317 1539
HCE5J64	688883	368	blastx.2	CDNA FLJ20378 FIS, CLONE KALIA0536.	sp Q9NX85 Q9NX85	60%	2206 2033	2018 1899
HCEBTF54	847033	369	WUblastx.6 4	(AJ297364) hypothetical protein [Homo sapiens]	emb CAB95949.1	50%	338	583
HCEIDN07	847034	374	blastx.2	PRO2550.	sp AAG35515 AAG35515	78% 86%	1425 1186	1255 1121

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DISCUSSION

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HCEFG93	745400	384	blastx.2	CDNA FLJ14310 fis. clone PLAC800271.	sp BAB14900 BAB14900	31%	1059	754
HCEFH31	801890	385	blastx.2	SPONDIN 2.	sp Q9ULW1 Q9ULW1	31%	1059	754
HCEFK56	872554	386	blastx.2	DYNACTIN, 150 KDA ISOFORM (150 KDA DYNEIN-ASSOCIATED 1	sp Q14203 DYNA_HUM AN	31%	1059	754
HCEGK81	844452	390	blastx.2	CDNA FLJ11786 fis. clone HEMBA1006036.	sp BAB13911 BAB13911	31%	1059	754
HCEGS49	846298	391	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	31%	1059	754
HCEGV33	752528	393	blastx.2	ADAPTER-RELATED PROTEIN COMPLEX 1 GAMMA 2 SUBUNIT 1	sp O75843 A1G2_HUMA N	31%	1059	754
						32%	1050	754
						72%	1370	1116
						64%	2112	2071
						55%	2074	2015
						100%	1503	1685
						98%	7	2088
						71%	350	646
						54%	1630	1466
						51%	1743	1633
						61%	905	579
						63%	881	711
						61%	856	710
						42%	711	529
						92%	651	610
						66%	721	659
						98%	2024	1818
						97%	1131	988
						100%	1396	1274
						89%	873	760
						54%	444	181
						43%	765	523

HCEHW24	560610	394	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	70%	1380	1126
HCEIL08	722208	395	blastx.2	ITBA1 PROTEIN (CXORF12 PROTEIN) (DXS9878E).	sp Q14656 IBAL_HUMA N	60%	1123	1064
						79%	130	585
						96%	581	775
						100%	2	103
						40%	36	539
						29%	471	641
HCELB04	847375	397	blastx.2	POTENT BRAIN TYPE ORGANIC ION TRANSPORTER.	sp Q9P290 Q9P290	93%	266	1024
						94%	1064	1594
						63%	156	344
						88%	982	1083
						33%	500	832
						31%	1106	1447
HCEMA08	846468	398	blastx.2	ATPase inhibitor precursor, mitochondrial - human	pit JC7175 JC7175	100%	37	216
HCEENQ22	740746	400	blastx.2	CDNA FLJ13059 fis, clone NT2RP3001589.	sp BAB14417 BAB14417	100%	1599	1739
HCEOF01	564906	401	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	75%	1551	1366
						52%	1669	1556
						78%	1667	1629
HCEOF01	850521	402	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	75%	1550	1365
						52%	1668	1555
						78%	1666	1628
HCEOQ67	847376	404	blastx.2	(AC079829) Pro kinase interactor, putative [Arabidopsis thaliana]	gbl AAG50687.1 AC0798 29_20	32%	545	841
						29%	330	596
						30%	291	602
HCEOV48	850681	405	blastx.2	melibiose carrier protein melB - <i>Synechocystis</i> sp. (strain PCC 6803)	pit S75696 S75696	30%	265	783
						31%	1311	1673
						24%	976	1233
HCEPC90	603920	406	blastx.2	PVAL GENE.	sp Q26195 Q26195	70%	928	818
HCEPO08	637543	407	blastx.2	RIBOSOMAL PROTEIN L29/HEPARIN/HEPARAN SULFATE INTERACTING 1	sp Q9XS36 Q9XS36	79%	516	145
						100%	614	504
HCEB03	812940	408	blastx.2	NAG18.	sp AAFP9587 AAF9587	76%	729	857
HCEIL19	702090	411	blastx.2	(AF336887) FKSG60 [Homo sapiens]	gbl AAKO1738.1 AF33688 7_1	64%	400	573
HCEAT42	815632	415	blastx.2	Cytochrome oxidase subunit 3.	sp BAB18608 BAB18608	79%	699	884

HCFA166	821337	416	blastx.2	CDNA FLJ20489 FIS. CLONE KAT08285.	sp Q9NXI7 Q9NXI7	47%	369	431
HCFBM77	604576	418	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	67%	1779 1780	1462 1757
HCFCB72	824165	420	blastx.2	CDNA: FLJ21463 fis. clone COL04765.	sp BAB1507 BAB15071	74%	650	609
HCFCG91	897509	421	WUblastx.6 4	(AE003323) CG8858 gene product [Drosophila melanogaster]	gb AAFS58554.1	47%	53	511
HCFCM81	847378	422	blastx.2	PUTATIVE PURINERGIC RECEPTOR P2Y10.	sp O00398 O00398	100%	281	1297
HCFLJ52	1307037	428	blastx.14	(AX055560) unnamed protein product [Homo sapiens]	gi 12228779 emb CAC22 100.1	100%	121	372
HCFLJ52	753260	2600	WUblastx.6 4	(AX055560) unnamed protein product [Homo sapiens]	emb CAC22100.1	100%	91	126
HCFLY20	786452	432	blastx.2	(AF319568) 3'-5' exonuclease TREX1-like protein [Homo sapiens]	gb AAK07615.1 AF31956 8_1	98%	57	437
HCFLY20	858875	433	blastx.2	(AF319568) 3'-5' exonuclease TREX1-like protein [Homo sapiens]	gb AAK07615.1 AF31956 8_1	98%	442	951
						98%	68	448
						72%	959	1033
						100%	948	989

HCFMX16	581042	438		blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	39%	251	322
HCFMX88	825989	439		blastx.2	CDNA FLJ14310 fis. clone PLACE3000271.	sp BAB14900 BAB14900	39%	108	176
HCFNM40	746864	440		blastx.2	catalase (EC 1.11.1.6) - Campylobacter jejuni	pir 40767 40767	35%	178	330
HCFNM50	732010	441		blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	54%	322	29
HCFNN75	762959	443		blastx.2	(AB055263) hypothetical protein [Macaca fascicularis]	dbj BAB21887.1	66%	825	968
HCFOH93	668236	445		blastx.2	PRO0898.	sp AAG35479 AAG35479	62%	959	1063
HCGBA15	604603	446		blastx.2	CDNA: FLJ21463 fis. clone COL04765.	sp BAB15071 BAB15071	46%	22	114
HCHAC68	610370	447		HMMER 2.1.1	PFAM: Ank repeat	PF00023	84%	246	130
HCHBP49	892141	448		blastx.2	hypothetical protein DKFZp761H229.1 - human (fragment)	pir T47147 T47147	75%	1258	1103
HCHCG33	862554	450		blastx.2	CDNA: FLJ21463 fis. clone COL04765.	sp BAB15071 BAB15071	56%	821	696
HCHMY37	833049	451		blastx.2	CG8412 PROTEIN.	sp Q9VH78 Q9VH78	58%	270	175
HCHOC06	688042	452		blastx.2	(AF320073) gastric cancer-related protein VRG107.1	gb AAK07636.1 AF320073.1	60%	136	98
HCHQB93	795648	454		blastx.2	GTP-binding protein 2 - human (fragment)	pir PC7084 PC7084	68%	329	258
							87%	6	770
							100%	770	871
							32%	147	254
							99%	8	490
							75%	2285	2073
							66%	2068	1988
							51%	15	1043
							100%	131	424
							99%	258	788
							88%	61	291

HCHQB93	875853	455	blastx.2		GTP-binding protein 2 - human (fragment)	pir PC7084 PC7084	89% 86% 37%	767 2 36	985 46 143
HCLCU75	862406	457	blastx.2		(AY012159) virion-associated nuclear-shuttling protein [Mus musculus]	gb AA642155.1	96% 31%	41 195	127 290
HCMSA37	598712	458	blastx.2		CDNA: FLJ21463 fis. clone COL04765.	sp BAB15071 BAB15071	56%	907	767
HCMSR07	821338	459	blastx.2		PRO4478 PROTEIN.	sp Q9UI59 Q9UI59	91%	1388	1489
HNCNA174	750972	460	blastx.2		hypothetical protein C06A1.6 - Caenorhabditis elegans	pir T18975 T18975	41% 29%	339 179	488 343
HNCNSF01	901060	464	blastx.2		HYPOTHEICAL 50.0 KDA PROTEIN.	sp Q9Y6N5 Q9Y6N5	100%	107	1456
HCTAE41	799546	467	blastx.2		HSPC238.	sp Q9P0P0 Q9P0P0	76% 81%	444 490	31 443
HCOQA572	828082	470	blastx.2		(AF05619) TPA inducible protein [Homo sapiens]	gb AACI2944.1	100% 100%	122 386	286 463
HCOBMB95	841011	471	blastx.2		ribosomal protein L39, cytosolic [validated] - rat	pir C4229 B6RT39	88% 84%	282 409	389 447
HCRAL29	844084	479	blastx.2		hypothetical protein (L1H 3' region) - human	pir B34087 B34087	34% 39% 61% 56%	329 305 89 48	132 305 12 1
HCRBL20	709660	481	blastx.2		CDNA FLJ20730 FIS, CLONE HEP10359.	sp Q9NWM9 Q9NWM9	99%	1	678
HCRBX84	1007105	482	WUblastx.6 4		(AL021578) dJ453C12.6.1 (uncharacterized hypothalamus protein (isoform 1)) [Homo sapiens]	emb CAC18108.1	91% 63%	37 51	177 617
HCRMA24	897005	483	blastx.2		hypothetical protein DKFZp564j2123.1 - human	pir T08683 T08683	97%	388	639

HCRM35	849071	484	blastx.2	(fragment) (AJ298133) hypothetical protein [Homo sapiens]	emb CAC22252.1	51%	43	858
HCRM35	874743	485	blastx.2	(AJ298133) hypothetical protein [Homo sapiens]	emb CAC22252.1	29%	1252	1554
HCRM35	897434	486	blastx.2	(AJ298133) hypothetical protein [Homo sapiens]	emb CAC22252.1	51%	43	858
HCRM35	897434	486	blastx.2	(AJ298133) hypothetical protein [Homo sapiens]	emb CAC22252.1	29%	1252	1554
HCROC18	884144	487	WUblastx.6	(AK023886) unnamed protein product [Homo sapiens]	dbj BAB14712.1	52%	43	858
HCROC18	884144	487	WUblastx.6	(AK023886) unnamed protein product [Homo sapiens]	dbj BAB14712.1	29%	1252	1554
HCUAE53	665716	488	blastx.2	YUP8H12.2.	sp O23033 O23033	95%	7	1095
HCUAT74	834611	490	blastx.2	VAMP5.	sp O95183 O95183	58%	504	304
HCUAT74	834611	490	blastx.2	VAMP5.	sp O95183 O95183	80%	76	304
HCUBN69	826610	494	blastx.2	PRO0898.	sp AAG35479 AAG35479	56%	895	653
HCUBY47	842787	495	blastx.2	Calymenine-1 protein precursor.	sp CAC17788 CAC17788	63%	1299	1135
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	33%	1173	1093
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	28%	542	459
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	100%	354	500
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	65%	839	573
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	94%	513	313
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	97%	1003	869
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	99%	33	362
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	61%	1446	1234
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	67%	1541	1449
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	59%	1445	1380
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	60%	1276	1232
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	100%	10	195
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	43%	580	386
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	65%	1329	1216
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	55%	1214	1128
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	58%	818	651
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	58%	956	42
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	81%	1993	1472
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	69%	1306	998
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	32%	815	321
HCUYV66	806577	496	blastx.2	HYPOHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q0U0H06 U123_HUM	86%	435	370

HCWAL10	639023	518				NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 (PORE 1 CDNA FLJ20378 FIS, CLONE KAIJA0536.	sp Q9Y2N3 N121_HUM AN	32% 44% 57% 33%	1969 441 1237 517	1814 367 1181 437
HCWDM69	684527	522				CDNA FLJ20378 FIS, CLONE KAIJA0536.	sp Q9NX85 Q9NX85	71% 37% 60% 65%	1049 817 886 757	900 605 818 617
HCWEB72	639041	524				CDNA FLJ20378 FIS, CLONE KAIJA0536.	sp Q9NX85 Q9NX85	65% 57% 56%	757 612 872	508 798
HCWEB82	799516	526				PRO0974	sp Q9PIN7 Q9PIN7	49%	384	656
HCWEM96	812735	527				probable ATP-binding component of ABC transporter PA3838 [imported] - Pseudomonas aeruginosa (strain PAO1)	pir G83165 G83165	74%	1901	1119
HCWHD30	834724	531				CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	74%	799	590
HCWHT34	692400	532				CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	58%	793	494
HCWHT52	834618	533				hypothetical protein U1126 - human cytomegalovirus (strain AD169)	pir S09875 S09875	75%	20	274
HCWK032	610619	534				Hypothetical 14.1 kDa protein. CDNA: FLJ21463 fis, clone COL04765.	sp BAB12154 BAB12154	82% 69%	496 536	600 817
HCWUW24	799517	537				CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	99% 100%	925 329	1800 718
HCYBA32	847042	538				MSTP016.	sp AAG39277 AAG39277	99% 100%	329 69	908 37
HDABR74	861789	540				7-DEHYDROCHOLESTEROL REDUCTASE (EC 1.3.1.21) (FRAGMENT).	sp O60717 O60717	99% 81%	5	908
HDFTB37	821339	545				collagen alpha 1 (III) chain - bovine	pir A02862 CGB07S	34% 30% 28%	1051 1401 416	602 979 969

HDHEA33	847044	548	blastx.2	F25451_2	sp O00320 O00320	30%	413	15
HDHEB12	610260	549	blastx.2	NEUROLOGIN 3 ISOFORM HNL3S (FRAGMENT).	sp Q9NZ96 Q9NZ96	79% 63% 32%	500 589 1596	1171 1494 1679
HDHEB80	809087	550	blastx.2	CDNA: FLJ22976 fis, clone KAT11222 (Fragment).	sp BAB15513 BAB15513	100%	2	697
						100%	657	731
						100%	657	731
						100%	657	731
						100%	657	731
						100%	658	732
						100%	659	733
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						100%	659	733
HDHIA16	701976	551	blastx.2	CDNA: FLJ22976 fis, clone KAT11222 (Fragment).	sp BAB15513 BAB15513	82% 93% 96%	570 589 592	680 678 678
HDLAL94	843583	554	EMMER 2.1.1 WUblastx.6 4	PFAM: ADP-ribosylation factor family (AKO16359) putative [Mus musculus]	PF00025	309.2	195	728
HDPAB86	901851	555	blastx.2	HEPATOCYLLULAR CARCINOMA-ASSOCIATED ANTIGEN 66.	sp Q9NYH9 Q9NYH9	100% 58%	310 74	1863 538
HDPAB80	778068	556	blastx.2	PHENYLALANYL-TRNA SYNTHETASE BETA CHAIN (EC 6.1.1.20) 1	sp Q9NSD9 SYFB_HUMAN	96% 93% 56% 78% 33% 31%	881 1435 359 1604 417 1584	1438 1662 661 1744 761 1766
HDPAB86	612855	557	blastx.2	CDNA: FLJ21394 fis, clone	sp BAB15056 BAB15056	76%	1250	1122

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DISCUSSION

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HDPLE73	886158	572	blastx.2	UNNAMED PROTEIN PRODUCT.	sp Q9N083 Q9N083	55%	1819	2151
HDPF65	847047	574	blastx.2	CDNA FLJ14058 fis, clone HEMBB1000554.	sp BAB14833 BAB14833	60%	236	12
HDPH25	740749	575	blastx.2	FLJ00010 protein (Fragment).	sp BAB15711 BAB15711	90% 96% 100% 55% 33% 45%	536 99 858 796 1974 825	2266 99 968 939 2300 1899
HDPY31	886159	576	blastx.2	hypothetical protein DKFZp434N1429.1 - human (fragment)	pir T46448 T46448	100%	1708	1899
HDPH72	847048	577	blastx.2	MONOCARBOXYLATE TRANSPORTER 3 (MCT 3).	sp O15427 MOT3_HUM AN	100% 100% 100% 100% 96% 37%	394 854 1192 1473 77 294 1427	855 1192 1473 295 392 1498
HDPKC55	822869	580	HMMER 2.1.1 blastx.2	PFAM: Tubulin/FtsZ family	PF00091	177.8	108	797
HDPKD16	897304	581	blastx.2	TUBULIN DELTA CHAIN (DELTA TUBULIN).	sp Q9UT1 ITBD_HUMA N	100%	102	1460
HDPMC52	847049	582	blastx.2	[Homo sapiens] TNF AND APOL RELATED LIGAND TALL-1 (DITL PRECURSOR).	emb CAB70443.1 sp Q9Y275 Q9Y275	100% 98% 100%	246 67 7	857 447 72
HDPML04	822851	583	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dh JBAB21918.1	65%	1421	1203
HDPNC21	839263	585	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	68%	1206	946
HDPN26	852338	586	blastx.2	glioma pathogenesis-related protein - human	pir JC4131 JC4131	44%	94	648
HDPD73	876202	587	blastx.2	PRO1722.	sp Q9P195 Q9P195	61% 60% 84%	78 16 173	185 90 211

HDPO33	892319	588	blastx.2	AQUAPORIN 3.	sp Q92482 AQP3_HUMA N	100%	53	928
HDPPB70	874027	589	blastx.2	hypothetical protein DKFZp564O0823.1 - human	pir T12458 T12458	98%	257	985
HDPPPE05	809109	591	blastx.2	RNA BINDING PROTEIN (FRAGMENT).	sp Q9UQ39 Q9UQ39	94% 100% 100% 73% 52% 57% 42% 38% 40% 52% 64%	355 153 46 1041 1068 1050 1050 607 460 1047 1053 1091	528 153 46 1109 1112 1112 1112 684 522 1112 1109 1091
HDPSA70	722216	592	blastx.2	SQUAMOUS CELL CARCINOMA ANTIGEN RECOGNIZED BY T CELL.	sp Q9UL01 Q9UL01	100%	13	285
HDPTI49	847052	597	blastx.2	DOCK180 PROTEIN.	sp Q14185 Q14185	80%	903	1190
HDPE25	636058	599	blastx.2	NEURULIN-SPECIFIC FERRODOXIN REDUCTASE-LIKE PROTEIN.	sp O42346 O42346	78%	3	722
HDQGD06	838076	600	blastx.2	(A1271326) unc-93 related protein [Homo sapiens]	emb CAC19791.1	98% 96% 100%	969 454 59	1574 996 463
HDQGD06	852673	601	blastx.2	(A1271326) unc-93 related protein [Homo sapiens]	emb CAC19791.1	97% 96% 100%	969 454 59	1559 996 463
HDQGD06	881280	602	blastx.2	(A1271326) unc-93 related protein [Homo sapiens]	emb CAC19791.1	99%	59	1576
HDQGN08	840588	603	blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp BAB13911 BAB13911	58%	818	510
HDQGO62	837353	604	blastx.2	CG14407 PROTEIN.	sp Q9VY13 Q9VY13	68%	177	515
HDQPM16	886161	605	blastx.2	PROLINE-RICH PROTEIN.	sp O88675 O88675	98%	145	648
HD5AH37	603518	609	blastx.2	CDNA FLJ12547 fis, clone NT2RM400634.	sp BAB14128 BAB14128	46% 39%	345 341	190 105

HDSAM57	834822	610	blastx.2	CDNA: FLJ21463 fts, clone COL04765.	sp BAB1507 BAB15071	42%	345	190
HDSAO14	847054	611	blastx.2	(AL136787) hypothetical protein [Homo sapiens]	emb CAB66721.1	48%	346	191
HDSAP15	772712	613	blastx.2	(AL136943) hypothetical protein [Homo sapiens]	emb CAB66877.1	42%	341	156
HDTAR39	847055	614	blastx.2	CDNA FLJ10736 fts, CLONE NT2RP3001420.	sp Q9NVH2 Q9NVH2	69%	917	690
HDTAS57	664482	615	blastx.2	CDNA: FLJ22976 fts, clone KAT11222 (Fragment).	sp BAB15513 BAB15513	76%	685	608
HDTDA48	809110	618	blastx.2	PRISTANOYL-COA OXIDASE.	sp O15254 O15254	100%	241	348
HDTDE66	610074	619	blastx.2	LR8.	sp Q9Y609 Q9Y609	46%	160	378
HDTDG75	799892	620	blastx.2	(AF267860) CDA017 [Homo sapiens]	gb AAC44729.1 AF267860.1	96%	242	772
HDTDS09	651320	621	blastx.2	NPD007.	sp AAC09733 AAC09733	100%	13	273
HDTGW76	862012	623	blastx.2	ETA116 PROTEIN.	sp Q9NY74 Q9NY74	66%	789	914
						86%	826	915
						98%	149	601
HDTGZ56	800756	624	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	db JBAB21918.1	100%	1	447
HDTHZ85	886163	625	blastx.2	(AF002460) gene_id:FD9.26-unknown protein [Arabidopsis thaliana]	db JBAA97098.1	100%	434	514
						93%	19	156
						84%	20	1234
						93%	1278	1835
						82%	519	653
						25%	296	829
						75%	631	678
						28%	1353	1559
						54%	27	269
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HE2AT61	834039	634	blastx.2	(AY012159) virion-associated nuclear-shuttling protein [Mus musculus]	gb AAC42155.1	91%	136	240
HE2AX36	812337	635	blastx.2	UBIQUITIN-SPECIFIC PROTEASE HOMOLOG.	sp Q9Y5B5 Q9Y5B5	99%	1292	300
HE2AY96	796800	636	blastx.2	UBIQUITIN-CONJUGATING ENZYME E2-32 KDA COMPLEMENTING (EC 1.1	sp Q29503 UBC3_RABIT	100%	38	751
HE2BD72	600349	637	blastx.2	CDNA FLJ120378 FIS, CLONE KALA0536.	sp Q9NX85 Q9NX85	77%	650	522
HE2BH50	847056	638	blastx.2	15 KDA SELENOPROTEIN PRECURSOR.	sp Q60613 SEI15_HUMA N	66%	496	371
HE2CC17	566806	640	blastx.2	retrovirus-related reverse transcriptase pseudogene - slow loris	sp Q60613 SEI15_HUMA N	37%	657	490
						100%	226	405
						62%	996	694
						60%	731	522
						58%	349	349
						50%	344	180
						67%	97	5
						38%	195	25
						64%	1037	996
						54%	937	905
HE2CI53	637592	641	blastx.2	CDNA FLJ11274 FIS, CLONE PLACE1009568, WEAKLY SIMILAR TO 1	sp Q9NUM3 Q9NUM3	100%	266	412
						100%	123	266

HE2D116	604029	645	blastx.2	CDNA: FLJ121463 fis, clone COL04765.	sp BAB15071 BAB15071	78%	1515	1231
HE2D184	746643	646	blastx.2	MITOCHONDRIAL 28S RIBOSOMAL PROTEIN S28 (MRP-S28).	sp P8267 P82673	100%	2	313
HE2D223	877491	647	blastx.2	CG17149 PROTEIN.	sp Q9YV97 Q9YV97	48%	1018	1284
HE2D225	844237	648	blastx.2	Hypothetical 12.9 kDa protein.	sp BAB12124 BAB12124	61%	2028	1897
HE2EH45	581520	650	blastx.2	MSTP030.	sp AAG39281 AAG39281	74%	97	762
						63%	230	8
						73%	690	815
						66%	895	930
HE2FE89	780314	651	blastx.2	ENH3.	sp Q9QYNI Q9QYNI	95%	224	541
HE2FR49	714456	652	blastx.2	CDNA FLJ11219 FIS, CLONE PLACE1008122.	sp Q9NUP7 Q9NUP7	100%	92	400
						64%	63	104
HE2GB19	566808	653	blastx.2	ENVELOPE PROTEIN (FRAGMENT).	sp Q95245 Q95245	63%	140	247
						39%	246	362
						41%	397	519
HE2HB61	798113	655	blastx.2	SARCOLIPIN.	sp Q00631 SARL_HUMA N	100%	154	246
HE2HF76	637594	657	blastx.2	Protein serine threonine kinase Ctk4.	sp AAG10074 AAG10074	100%	11	859
HE2JE66	830436	659	blastx.2	X-LIKE 1 PROTEIN.	sp Q9Y485 Q9Y485	65%	101	514
HE2NW57	638615	660	WUblastx.6 4	ZZ/beta-Gal-IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	46%	454	492
						86%	314	472
HE2OA95	637595	661	blastx.2	(AF242222) TPEF [Homo sapiens]	gb AAG49452.1 AF24222 2.1	98%	1665	1231
HE2PB61	847379	663	blastx.2	CTL1 PROTEIN	sp Q9J1Z7 Q9J1Z7	52%	3	650
HE2P43	847380	664	blastx.2	CDNA FLJ13697 fis, clone PLACE2000172.	sp BAB14669 BAB14669	100%	234	407
HE2C141	604908	666	blastx.2	PRO1438.	sp Q9P1H3 Q9P1H3	72%	1076	945
HE2BP05	845980	675	blastx.2	(AP002460) gene_id:ID9.2c-unknown protein [Arabidopsis thaliana]	dbj BA97098.1	81%	1713	1859
						88%	1727	1858
						100%	1745	1858
						100%	1745	1858

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HE8BP64	847059	676	blastx.2	sugar transporter protein HsAT1 - mouse	pir C5641 C5641	100%	1746	1859
HE8BQ49	589443	677	blastx.2	hypothetical protein - human transposon MER37	pir S72482 S72482	64%	1746	1859
HE8BR18	731933	678	blastx.2	CDNA FLJ10335 FIS, CLONE NT2RM2000669	spl Q9NW38 Q9NW38	46%	1746	1859
HE8BT58	806144	680	WUblastx.6 4	(AF356518) junctional adhesion molecule 3 precursor [Homo sapiens]	gb AAK27221.1 AF35651 8_1	100%	1746	1859
HE8CC34	753266	683	blastx.2	HYPOTHETICAL PROTEIN	spl Q14288 Q14288	91%	1746	1859
						94%	1745	1858
						76%	1746	1859
							10	1299
							105	248
							343	474
							221	487
							654	1091
							80	937
							1223	954

HE8D294	877630	687	blastx.2	(FRAGMENT).		55%	427	233
HE8EX86	823176	689	blastx.2	CGI-119 PROTEIN.	sp Q9Y3C2 Q9Y3C2	55%	1501	1391
				CDNA: FLJ21661 fls, clone COL08837.	sp BAB15109 BAB15109	30%	239	42
						36%	1153	1088
HE8FC10	693908	690	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	100%	1256	1657
			blastx.2	CDNA FLJ13479 fls, clone PLACE1003738, weakly similar to 1	sp BAB14602 BAB14602	99%	6	749
HE8FG15	799520	691	blastx.2	PROTEIN 4.1-G.	sp O43491 O43491	34%	6	818
HE8FG24	733560	692	blastx.2	GLYCEROL-3-PHOSPHATE TRANSPORTER (G-3-P TRANSPORTER) 1	sp P57057 GLPT_HUMA N	45%	417	674
						44%	438	674
HE8FK78	852180	693	blastx.2	(AK023899) unnamed protein product [Homo sapiens]	dbj BAB14714.1	36%	423	674
						48%	6	134
						44%	48	134
HE8FR53	843807	696	blastx.2	PRO1107.	sp AAG35531 AAG35531	99%	226	1197
HE8MQ01	886800	699	blastx.2	PRO1902 PROTEIN.	sp Q9UHT1 Q9UHT1	100%	94	522
HE8NC81	862015	702	blastx.2	(AF037402) butyrophilin [Bos taurus]	gb AAB92578.1	90%	11	76
						88%	269	1372
HE8NC81	1096692	2602	HMMER 2.1.1	PFAM: Immunoglobulin domain	PF00047	80%	72	266
			WUblastx.6	(AK026071) unnamed protein product [Homo sapiens]	dbj BAB15349.1	100%	1	75
HE8QU21	838391	704	blastx.2	(AB055263) hypothetical protein [Macaca fascicularis]	dbj BAB21887.1	98%	3411	3181
HE8SH74	833053	705	blastx.2	PRO2550.	sp AAG35515 AAG35515	71%	2692	2483
						24%	216	800
						28.3	563	814
						90%	419	1264
						44%	1391	1125
						76%	3017	2868
						52%	3153	3034

HE8UX34	838170		706		blastx.2	CDNA FLJ13310 fis, clone OVARC1001453.	sp BAB14547 BAB14547	50% 69%	3154 2476	3095 2441
HE9AE05	863257		707		blastx.2	CDNA FLJ12547 fis, clone NT2RN400634.	sp BAB14128 BAB14128	67%	7	162
HE9C138	565082		710		blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	45% 42% 36%	484 690 35	687 690 211
HE9CM58	562768		712		blastx.2	YY1-ASSOCIATED FACTOR 2.	sp Q99710 Q99710	58% 54%	1207 1382	1079 1245
HE9CV59	847061		713		blastx.2	(AX061598) unnamed protein product [Homo sapiens]	emb CAC24974.1	99%	6	359
HE9DG54	821326		714		blastx.2	UNNAMED PROTEIN PRODUCT.	sp Q9N083 Q9N083	100%	73	432
HE9DH59	886059		715		blastx.2	(AJ303077) mitochondrial RNA splicing protein 3/4 [Homo sapiens]	emb CAC27996.1	53%	1508	1197
HE9EM54	560627		718		blastx.2	PVA1 GENE.	sp Q26195 Q26195	100% 91% 31% 100% 41%	1513 9 1519 7 11	2085 419 2043 51 199
HE9FH28	633737		719		blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	49% 60%	531 775	755 864
HE9HE13	868829		720		blastx.2	PRO2160.	sp Q9P183 Q9P183	58%	965	591
HE9HE13	824328		721		blastx.2	PROTEIN PRO0518.	sp Q9UI56 p318_HUMA N	100%	434	183
HE9HF59	664485		722		blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	100%	665	462
HE9TA42	834972		727		blastx.2	CGI0882 PROTEIN.	sp Q9VQ94 Q9VQ94	46%	1614	1276
HEAAC21	581048		728		blastx.2	CDNA FLJ10980 FIS, CLONE PLACE1001570.	sp Q9NV24 Q9NV24	58% 38% 55% 41%	38 1674 1414 2150	1462 2138 1674 2251
HEAAD63	603321		731		blastx.2	CDNA FLJ20378 FIS, CLONE	sp Q9NX85 Q9NX85	92%	76	246
								59%	819	511

HEAAM06	562769	734	blastx.2	KAJA0536. DJ336K20B.1 (novel protein based on FGENSEH) (Fragment).	sp CAC09365 CAC09365	53%	844	806
HEAAN52	862020	735	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	55%	796	1104
HEAAW94	847340	738	blastx.2	ACTIN-BINDING PROTEIN HOMOLOG ABP-278.	sp Q9UEV9 Q9UEV9	99%	285	890
						45%	285	884
						40%	285	884
						37%	285	872
						36%	285	884
						36%	285	878
						36%	285	884
						35%	285	884
						36%	303	887
						36%	285	881
						36%	285	878
						32%	288	887
						33%	285	869
						32%	279	884
						33%	288	884
						32%	285	863
						34%	285	878
						35%	315	848
						33%	309	824
						33%	429	857
						44%	285	539
						27%	321	824
						37%	552	824
HEBAT05	637602	740	blastx.2	CDNA FLJ20568 FIS, CLONE REC00775.	sp Q9NWW0 Q9NWW0	96%	111	380
						94%	24	131
						30%	293	451
HEBCN80	596808	743	blastx.2	(AB055280) hypothetical protein [Macaca fascicularis]	dbj BAB21904.1	53%	666	788
HEBDF90	835835	745	blastx.2	IA13 PROTEIN.	sp Q9JMK4 Q9JMK4	57%	782	865
HEBGM06	842527	752	blastx.2	BRAIN CDNA, CLONE MNCB-3966 (FRAGMENT).	sp Q9J192 Q9J192	50%	34	405
						73%	7	186
HEEAF49	880521	754	blastx.2	PROZ822.	sp Q9P147 Q9P147	80%	2123	1896

HEEA146	637623	755	blastx.2	NEURONAL THREAD PROTEIN AD/C-NTP.	sp O60448 O60448	71% 65% 57% 62% 56% 61% 51% 53% 52% 57% 33% 43% 47% 40% 50% 50% 60% 36% 31% 27%	1631 1626 2360 2367 2412 1659 1483 1416 2241 2080 1381 1368 1493 1685 2312 2172 2225 2073 2172 2282 1602 2150 2169 2125 2227 2084 1561 1649	1368 1426 2109 2158 2218 1483 1416 2080 1381 1368 1416 2172 2073 2172 1519 2061 2125 2084 1561 1649
HEGA120	825818	756	blastx.2	CDNA: FLJ21463 fis, clone COL04765	sp BAB15071 BAB15071	56%	911	759
HEIAC52	826611	757	blastx.2	CDNA: FLJ22429 fis, clone HRC09084.	sp BAB15355 BAB15355	75%	260	237
HELA55	610078	758	blastx.2	(AP002460) gene_id:FIID9_26-unknown protein [Arabidopsis thaliana]	dbj BAA97098.1	96%	7	915
						39% 38% 47% 47% 47% 47% 47% 47% 47% 47% 47% 47% 47% 47% 47% 47% 47% 47% 47%	743 765 743 743 743 743 743 743 743 743 743 743 743 743 743 743 743 743 743	477 508 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540

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HELEL76	839470	767	blastx.2	Caenorhabditis elegans PRO2550.	sp AAG35515 AAG35515	64% 77%	1250 1087	1065 956
HELEO45	847067	768	blastx.2	CDNA: FLJ21982 fis, clone HEP06188.	sp BAB15197 BAB15197	99% 92%	7 1385	1392 1423
HELFA57	845981	769	blastx.2	WUGSC:H DJ0771P04.2 PROTEIN (FRAGMENT).	sp Q95761 Q95761	95% 78% 95% 45%	340 62 9 1779	1362 409 137 1838
HELHN47	872795	773	blastx.2	(AK000982) unnamed protein product [Homo sapiens]	dbj BAA91454.1	91%	1233	772
HELHP11	638064	774	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	76%	1429	1313
HELHP11	851116	775	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	78%	1450	1313
HEMBV40	847069	777	blastx.2	NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) Cl- B12 chain - human	pir JCS822 JCS822	100%	762	1055
HEMC180	765041	778	blastx.2	DHHC1 PROTEIN.	sp Q9NYG2 Q9NYG2	77% 52% 53% 79%	155 3 474 401	403 206 647 487
HEMDB07	617137	780	blastx.2	CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q9NX85 Q9NX85	69%	346	705
HEMGK71	847374	782	blastx.2	CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q9NX85 Q9NX85	64% 80%	1576 1383	1352 1258
HEOMU44	778085	787	blastx.2	CG7728 PROTEIN.	sp Q9VVY9 Q9VVY9	49%	826	1470
HEON185	566833	788	blastx.2	hypothetical 43.5K protein - mouse	pir U0319 U0319	90% 77% 82%	382 236 657	672 421 755
HEONK04	658682	789	blastx.2	BRIDGING INTEGRATOR-2.	sp Q9UJKN4 Q9UJKN4	96%	138	1070
HEONP08	601691	790	blastx.2	HYPOTHETICAL 15.7 KDA PROTEIN.	sp Q9Y349 Q9Y349	100%	924	511
HEPBC23	799985	792	blastx.2	DJ1182A14.3 (similar to MST1 (macrophage stimulating 1 1	sp CAC17639 CAC17639	92%	4	303
HEPCU48	805585	795	blastx.2	PROTEIN O-MANNOSYL-	sp Q9UNT2 Q9UNT2	87%	315	1490

				TRANSFERASE 1.				95%	79	324
								100%	803	973
								95%	15	83
HEQA47	877634	796	blastx.2	EMILIN PRECURSOR.				100%	12	1085
HEQB01	834633	799	blastx.2	hypothetical protein UL126 - human cytomegalovirus (strain AD169)				79%	12	113
HEQB01	861786	800	blastx.2	zinc finger protein - Arabidopsis thaliana				32%	403	936
								26%	1207	1509
								31%	1540	1662
HEQB01	876546	801	blastx.2	zinc finger protein - Arabidopsis thaliana				32%	403	936
								26%	1207	1509
								31%	1540	1662
HESAG57	855936	807	blastx.2	EJF4GII				100%	1221	7
HETB188	855937	810	blastx.2	(AL133390) dJ317G22.2 (encephalopsin) [Homo sapiens]				100%	10	864
HETCM67	861909	811	HMMER 2.1.1	PFAM: Disintegrin				112.2	239	466
			blastx.2	EMDC II PROTEIN.				100%	11	1318
HETDD61	800668	812	blastx.2	AP-4 ADAPTOR COMPLEX BET A4 SUBUNIT.				96%	1315	1761
								96%	789	1085
								98%	363	569
HETDD61	852381	813	blastx.2	AP-4 ADAPTOR COMPLEX BET A4 SUBUNIT.				96%	1314	1760
								96%	789	1085
								98%	363	569
HETDP76	782836	816	WUblastx.6 4	(BC002535) hypothetical protein FLJ10504 [Homo sapiens]				100%	29	394
								92%	700	1620
								80%	1895	2116
								53%	1428	1466
								100%	465	653
HETFO57	844190	817	blastx.2	(AF317622) RAD50-interacting protein 1 [Homo sapiens]				99%	2	1363
HETIN36	840363	821	blastx.2	CDNA FLJ112155 fis. clone MAMMA1000472.				58%	617	480

HFAA117	607563	822	blastx.2	PRO3550.	sp AAG35515 AAG35515	58% 61%	227 426	412 518
HFADf41	607557	824	blastx.2	Hypothetical 12.9 kDa protein.	sp BAB12124 BAB12124	56%	613	750
HFADM09	899435	825	blastx.2	DYSTROBREVIN-ZETA.	sp Q13198 Q13198	100%	382	480
HFADU23	636071	826	blastx.2	CDNA FLJ12988 fis. clone	sp BAB14376 BAB14376	61%	495	334
HFCAG75	834834	827	blastx.2	NT2RP3000080.	sp BAB15071 BAB15071	76%	777	493
HFCAl40	866441	828	HMMER 2.1.1	PFAM: TPR Domain	PF00515	52.6	167	253
HFCQAQ17	695720	829	blastx.2	CG8777 PROTEIN.	sp Q9V532 Q9V532	36%	20	1021
HFCBC16	559312	830	blastx.2	NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain NDUFA3 - human	pir J00379 J00379	78%	20	238
HFCBT29	654842	834	blastx.2	NDUFA3 - human	dbj BAB21918.1	66%	1002	808
HFCDN13	722221	836	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	sp BAB14258 BAB14258	73%	80	280
HFCDT67	598900	837	blastx.2	CDNA FLJ12756 fis. clone NT2RP2001295, weakly similar to 1	sp Q9P017 Q9P017	98%	2	187
HFCDY36	834512	838	blastx.2	HSRC186.	emb CAB66657.1	97%	9	455
HFCEC45	847384	839	blastx.2	(AL136723) hypothetical protein [Homo sapiens]	sp Q9VTA4 Q9VTA4	80%	498	902
HFCEt43	596813	840	blastx.2	Campylobacter jejuni	sp Q9ZIM7 Q9ZIM7	77%	845	910
HFAG55	838142	841	blastx.2	ACETYLGLUCOSAMINYLT RANSFERASE-LIKE PROTEIN.	sp AAG38418 AAG38418	41%	170	286
HFEAU63	790190	842	blastx.2	SMT3 isopeptidase 1.	sp Q99502 EYAL1_HUMA	34%	88	270
HFEBO15	831772	845	blastx.2	EYES ABSENT HOMOLOG 1.	sp AAG17975 AAG17975	45%	373	438
				Hypothetical 42.8 kDa protein.		93%	279	190
						59%	89	430
						100%	7	144
						100%		
						100%	12	200
						90%	2180	2028
						79%	112	477

HFEB017	852218	846	blastx.2	CDNA FLJ20265 FIS, CLONE COLF9334.	sp Q9NXXG5 Q9NXXG5	49%	2	337
HFFAE46	654843	847	blastx.2	NON-FUNCTIONAL FOLATE BINDING PROTEIN.	sp Q14597 Q14597	91% 100%	606 523	809 624
HFFAH01	845438	848	blastx.2	hypothetical protein DKFZp434P1721.1 - human (fragment)	pir I43460 I43460	56% 77% 78% 75% 58%	402 667 608 386 499 602	749 801 751 442 534 649
HFAL70	827570	849	blastx.2	PRO1902 PROTEIN.	sp Q9UHT1 Q9UHT1	90% 98% 58%	818 259 714	489 11 241
HFFAV61	664486	850	blastx.2	CRK-ASSOCIATED SUBSTRATE (P130CAS) (BREAST CANCER ANTI-ESTROGEN RESISTANCE 1 PROTEIN).	sp P56945 BCAL_HUMA N	60% 92% 50%	1079 1636 577	969 1184 536
HFGEAE28	815658	852	blastx.2	CDNA: FLJ2976 fis, clone KAT11222 (Fragment).	sp BAB15513 BAB15513	79% 85% 78% 96%	1827 1847 1842 1863	1943 1951 1952 1952
HFGAN63	708053	853	blastx.2	TUMOR SUPPRESSOR (LUC-1).	sp Q12794 Q12794	45% 53%	153 561	533 605
HFIAB78	581054	855	blastx.2	F-BOX PROTEIN FBL5 (FRAGMENT).	sp Q9UKA1 Q9UKA1	100% 100% 36% 32% 58%	14 672 690 661 608	667 872 836 661 658
HFIIK29	843387	860	blastx.2	CDNA: FLJ21611 fis, clone COL07344.	sp BAB15093 BAB15093	94%	48	218
HFIIK29	852308	861	blastx.2	CDNA: FLJ21611 fis, clone COL07344.	sp BAB15093 BAB15093	94%	48	218
HFIIK29	873681	862	blastx.2	CDNA: FLJ21611 fis, clone COL07344.	sp BAB15093 BAB15093	94%	48	218
HFIIK29	885007	863	blastx.2	CDNA: FLJ21611 fis, clone COL07344.	sp BAB15093 BAB15093	94%	48	218

HFIZ61	855939	866	blastx.2	COLT7344. PROSTAGLANDIN F2- ALPHA RECEPTOR REGULATORY PROTEIN 1	sp Q62786 PRP_RAT	92%	2	229
HFITF80	608210	870	blastx.2	Hypothetical 8.0 kDa protein.	sp BAB12345 BAB12345	53%	830	684
HFITU21	794323	872	blastx.2	CDNA FLJ1020 FIS, CLONE PLACE1003625, WEAKLY SIMILAR TO 1	sp Q9NV02 Q9NV02	98%	6	260
HFIXC39	683053	874	blastx.2	hypothetical protein 1 - rat (fragment)	pir S33477 S33477	40%	1843	1541
HFIXG69	704080	875	blastx.2	NAADH:UBIQUINONE OXIDOREDUCTASE MLRQ SUBUNIT HOMOLOG.	sp Q9NRX3 Q9NRX3	100%	32	292
HFIXE39	844408	876	blastx.2	PYRUVATE DEHYDROGENASE PROTEIN X COMPONENT, MITOCHONDRIAL 1.1	sp Q00330 Q0DPX_HUM AN	100%	1394	1651
HFIVP15	688044	877	blastx.2	Zinc metalloendopeptidase (Fragment).	sp AACG35563 AACG35563	49%	430	1074
						32%	553	1110
						37%	418	663
						37%	712	966
						33%	577	738
						34%	481	558
HFIZF51	532598	879	blastx.2	(AP002460) gene_id:FD9.26-unknown protein [Arabidopsis thaliana]	dbj BAA97098.1	65%	243	383
						65%	243	383
						72%	255	383
						72%	255	383
						72%	255	383
						72%	255	383
						72%	255	383
						72%	255	383
						72%	255	383
						72%	255	383
						72%	255	383
						72%	255	383

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HFKEB47	847076	883	blastx.2	FK506-BINDING PROTEIN (FRAGMENT).	sp Q95302 Q95302	100%	100%	304	384
						99%	100%	304	384
						54%	100%	304	384
						47%	100%	304	384
						43%	100%	304	384
						36%	100%	304	384
						64%	100%	304	384
						72%	100%	304	384
						97%	100%	304	384
						92%	100%	304	384
						99%	100%	1177	323
						54%	100%	1174	404
						47%	100%	997	323
HFKDX53	731867	884	blastx.2	CG1184 PROTEIN.	sp Q9W3X3 Q9W3X3	43%	100%	419	763
						36%	100%	763	966
						64%	100%	1222	1272
						72%	100%	261	293
HFKEB14	709663	885	blastx.2	CDNA FLJ10436 FIS, CLONE.	sp Q9NYY4 Q9NYY4	97%	100%	8	127

HFKEU17	815554	889	blastx.2	NT2RP1000574, HIGHLY SIMILAR TO 1 GROWTH ARREST AND DNA-DAMAGE-INDUCIBLE PROTEIN GADD45 1	sp Q92527 C4SG_HUMA N	100% 97%	464 226	784 330
HFKEV77	850678	890	blastx.2	hypothetical protein DKFZp364B167.1 - human	pir T14797 T14797	100%	205	585
HFKEF15	775846	891	blastx.2	FORKHEAD BOX PROTEIN C1 (FORKHEAD-RELATED PROTEIN FKHL7) 1	sp Q12948 FXCL_HUMA N	100%	2	166
HFKEFK49	847077	893	blastx.2	MAP KINASE- INTERACTING KINASE.	sp Q9UHRQ Q9UHR0	100%	277	366
HFEXD49	844524	898	blastx.2	Y-A22 PROTEIN (HYA22).	sp O15194 O15194	99%	7	435
HFEXE28	847385	899	blastx.2	(AL136837) hypothetical protein [Homo sapiens]	emb CAB66771.1	59% 38% 56% 40% 41%	1011 102 371 262 1414	1286 476 538 633 1764
HFOYR54	743196	903	blastx.2	U3 SMALL NUCLEOLAR RIBONUCLEOPROTEIN	sp O00566 MP10_HUMA N	100%	1	1377
HFPBQ55	608171	909	blastx.2	PROTEIN MPP10 (M 1 ELASTIN LIKE PROTEIN (FRAGMENT).	sp Q24333 Q24333	100%	45	116
HFPQM32	608215	911	blastx.2	CDNA FLJ12155 fis. clone MAMMA1000472.	sp BAB13989 BAB13989	52%	723	442
HFPUC47	741049	914	blastx.2	PRO0898.	sp AAG35479 AAG35479	60%	1677	1429
HFPY66	825718	915	blastx.2	PRO2550.	sp AAG35515 AAG35515	73% 72% 50%	1570 1383 1451	1424 1252 1392
HFPDC65	839208	916	blastx.2	CDNA: FLJ23451 fis. clone HSI06456.	sp BAB15658 BAB15658	100%	72	605
HFPDE42	844402	917	blastx.2	(AF220039) tripartite motif protein TRIM9 [Mus 1	gb AAG53493.1 AF22003 9_1	97%	3	218
HFPDP70	745433	920	blastx.2	CDNA FLJ13078 fis. clone NT2RP3002002.	sp BAB14424 BAB14424	58% 74% 88%	980 910 879	1096 900 905

HFPDX08	746379	922	blastx.2	CDNA FLJ12474 fis. clone NT2RM100097.	sp BAB14085 BAB14085	100%	3	317
HFEPE69	835459	923	blastx.2	LIPOPOLYSACCHARIDE SPECIFIC RESPONSE-5 PROTEIN (FRAGMENT).	sp Q9P0X1 Q9P0X1	96%	654	749
HFRALU40	701986	924	blastx.2	hypothetical protein 3 - human	pir E41925 E41925	46% 57% 34%	428 428 228	252 428 109
HFSAY91	828067	926	blastx.2	hypothetical protein DKFZp434M035.1 - human	pir I46933 I46933	98% 100%	1096 1280	437 1197
HFSBC10	638315	927	blastx.2	SEMAPHORIN 3D PRECURSOR.	sp Q95025 SM3D_HUMAN	100% 81% 100%	1437 626 234	739 225 67
HFSBE94	600398	928	blastx.2	CDNA FLJ20489 FIS. CLONE KAT108285.	sp Q9NX17 Q9NX17	75%	876	610
HFTAN11	638316	929	blastx.2	PRO2550.	sp AAG35515 AAG35515	82% 83% 68% 54%	786 617 537 676	667 489 490 614
HFTB50	610015	933	blastx.2	collagen alpha 1(XVI) chain precursor - human	pir S23810 S23810	98% 51% 50% 50% 55% 50% 46% 50% 49% 49% 50% 47% 53% 48% 48% 49% 46%	492 492 492 492 492 492 492 492 492 492 492 492 492 492 492 492 492	325 331 334 337 337 331 331 337 337 337 331 331 331 337 325 331 334

							46%	492	331
							45%	492	331
							50%	492	331
							39%	1625	1347
							46%	486	337
							44%	486	337
							44%	477	331
							47%	492	370
							36%	347	90
							53%	347	270
							48%	347	258
							42%	1433	1272
							31%	347	126
							80%	347	303
							71%	1433	1392
							41%	374	123
							52%	1433	1359
							40%	1541	1392
							54%	347	276
							71%	1433	1392
							34%	1502	1275
							46%	347	258
							29%	1625	1389
							50%	1433	1356
							37%	1433	1299
							38%	1469	1320
							30%	344	129
							28%	1538	1287
							45%	1433	1356
							36%	1535	1347
							64%	1433	1392
							35%	1553	1380
							40%	1535	1389
							57%	1433	1380
							52%	1433	1380
							34%	1535	1347
							46%	1433	1356

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							52%	613	1182
							55%	618	1181
							51%	617	1183
							52%	617	1183
							47%	617	1183
							49%	617	1183
							54%	625	1182
							50%	617	1183
							50%	625	1182
							54%	618	1181
							55%	618	1181
							48%	617	1183
							55%	618	1181
							48%	617	1183
							50%	618	1181
							52%	623	1183
							45%	617	1183
							42%	617	1183
							51%	619	1182
							50%	618	1181
							43%	619	1182
							43%	619	1182
							51%	619	1182
							46%	618	1181
							41%	619	1182
							43%	618	1181
							43%	619	1116
							50%	627	1181
							48%	629	1183
							48%	627	1181
							42%	617	1078
							45%	616	1182
							42%	617	1078
							40%	618	1094
							46%	618	1181
							38%	617	1057
							43%	616	1182

HFIDK11	837382	943	blastx.2	ES18 (FRAGMENT).	sp Q9Y6D7 Q9Y6D7	40%	618	1085
HFIDU08	825715	944	blastx.2	CDNA FLJ20378 FIS, CLONE KAI0536.	sp Q9NX85 Q9NX85	90%	619	1182
HFVOK67	569778	945	blastx.2	PRO2550.	sp AAG35515 AAG35515	100%	619	1182
HFVHD38	826709	946	blastx.2	hypothetical protein DKFZp434j065.1 - human (fragment)	pir T46488 T46488	100%	627	1181
HFVIC33	799524	948	HMMER 2.1.1	PFAM: Enoyl-CoA hydratase/isomerase family	PF00378	25%	618	1034
HFVAK32	638319	949	blastx.2	ENOYL COA/ACYL COA 1 CDNA FLJ20378 FIS, CLONE KAI0536.	sp Q9NTX5 Q9NTX5	99%	618	1034
HFVAK59	831141	950	blastx.2	METASTASIS-ASSOCIATED PROTEIN MTA1.	sp Q9NX85 Q9NX85	50%	673	1182
HFVBM52	737672	953	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q13330 MTA1_HUMAN	49%	625	945
HFVXBV67	748230	955	blastx.2	hypothetical protein (L1H 3' region) - human	sp Q9NX17 Q9NX17	100%	617	847
HFVXC142	606806	958	blastx.2	Hypothetical 9.0 kDa protein.	sp B34087 B34087	43%	625	822
						38%	625	822
						34.7	67	618
						99%	558	650
						96%	2	67
						56%	295	495
						73%	909	775
						54%		
						64%		
						72%	534	406

HFYCL59	825713	959	blastx.2	WD-REPEAT PROTEIN 9 (FRAGMENT).	sp Q9NSI6 WDR9_HUMAN	43%	542	297
						98%	1020	397
						76%	397	59
						40%	1002	385
						77%	180	88
						29%	1026	415
						55%	149	3
						30%	391	182
						25%	960	418
HFYCS53	828903	962	blastx.2	CDNA FLJ13640 fis. clone PLACE101122L	sp BAB14647 BAB14647	99%	1107	442
HFYXDB37	569805	963	blastx.2	CDNA: FLJ21463 fis. clone COL04765	sp BAB15071 BAB15071	53%	1288	1115
						52%	1136	999
HFYDCL76	821571	966	blastx.2	probable pol. polypeptide- related protein 4 - rat	pir S21348 S21348	64%	1740	1519
						63%	1811	1746
						48%	1520	1446
HFYDP44	590269	969	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	55%	482	748
						57%	554	796
						73%	603	749
						65%	971	1108
						61%	971	1111
						44%	21	224
						42%	220	220
						44%	27	200
						68%	742	828
						37%	657	899
						46%	629	748
						35%	20	223
						56%	971	1039
						65%	738	806
						42%	566	670
						40%	1035	1115
						50%	1028	1114
						51%	18	116
						44%	651	827
						31%	852	1115
						47%	127	234

HFHDR08	621342	970	blastx.2	(AB05298) hypothetical protein [Macaca fascicularis]	dbj BAB21923.1	57%	145	201
HFHDR28	621300	971	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	63%	506	703
HFHDR28	873859	972	blastx.2	CDNA: FLJ22865 fis, clone KAT02171.	sp BAB15495 BAB15495	53%	490	675
HFHDR47	846477	973	blastx.2	PRO2550.	sp AAG35515 AAG35515	68%	653	718
HFHDR203	846323	974	blastx.2	L1 ELEMENT L1.33 P40.	sp O00376 O00376	73%	726	779
HFHEE88	838822	976	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	98%	853	314
HFHGR32	534607	977	blastx.2	PRO1722.	sp Q9P195 Q9P195	66%	957	733
HFHGT51	638174	978	blastx.2	CDNA FLJ20378 FIS, CLONE KAL0536.	sp Q9NX85 Q9NX85	75%	1072	977
HFHHT33	874255	981	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	68%	956	909
HFHHL21	581363	982	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	33%	1070	957
HFHIM09	838720	985	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	39%	757	521
HFHIN89	786196	986	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTIP.	sp O00448 O00448	32%	1065	739
HFHJB21	743165	987	blastx.2	CDNA FLJ20489 FIS, CLONE	sp Q9NX17 Q9NX17	41%	528	328
						18%	1253	834
						24%	1161	877
						56%	1310	1116
						70%	24	218
						54%	223	288
						78%	1232	1107
						74%	1126	989
						65%	1556	1263
						61%	1600	1358
						58%	740	1021
						70%	182	9
						66%	1036	1332
						67%	1045	1218
						71%	1061	1219
						59%	1208	1273
						76%	1278	1316
						64%	1287	1328
						62%	1290	1337
						73%	1296	1003

HFJN93	596815	988	blastx.2	KAT08285. CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	71%	1738	1568	1568
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	97%	1	37	447
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	32%	10	10	435
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	34%	10	10	435
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	32%	10	10	516
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	80%	111	111	1193
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	60%	1872	1872	2090
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	66%	1844	1844	1888
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	60%	1303	1303	1067
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	99%	3	3	827
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	48%	29	29	700
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	44%	29	29	715
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	47%	29	29	715
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	46%	29	29	703
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	45%	29	29	703
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	44%	38	38	700
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	46%	29	29	667
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	45%	68	68	700
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	46%	26	26	655
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	46%	26	26	616
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	46%	302	302	700
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	50%	17	17	304
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	100%	183	183	1118
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	100%	24	24	455
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	69%	559	559	395
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	61%	642	642	565
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	58%	848	848	618
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	60%	320	320	448
HFJN15	800866	989	blastx.2	(AF220017) tripartite motif protein TRIM2 [Mus musculus]	gb AA653471.1 AF220017_1	64%	1011	1011	766

HHEMP35	566796	1020	blastx.2	PLACE3000271. NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	62% 60% 70% 64% 63% 47% 44% 39% 43% 47% 50% 33% 65% 37% 48% 50% 42% 33% 80% 45%	1060 1032 781 606 417 1063 606 659 575 516 1063 896 662 656 416 579 915 976 1063 349 941	827 781 445 896 325 417 357 343 965 771 357 597 264 502 808 878 812 320 885
HHEMP35	821328	1023	blastx.2	PROTEIN INHIBITOR OF ACTIVATED STAT3.	sp Q9Y6X2 Q9Y6X2	98% 60%	302 75	931 308
HHEMP35	840026	1024	WUblastx.6 4	(AF217518) uncharacterized bone marrow protein BM042 [Homo sapiens]	gb AAAF67629.1 AF21751 8_1	77%	845	1351
HHEMP35	709685	1026	blastx.2	(AP002460) gene_id:FIID9.26-unknown protein [Arabidopsis thaliana]	dbj BA97098.1	97% 90% 94% 92% 94% 100% 100% 100% 100% 100% 100%	982 983 977 978 976 983 982 982 983 982 983	1098 1108 1093 1094 1092 1093 1092 1092 1093 1092 1093

								100%	982	1092
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HHPEP72	621254	1031	blastx.2	CDNA: FLJ21463 fis, clone COL04766.	sp BAB15071 BAB15071	77%	238	330
HHPEP81	840614	1032	blastx.2	RANBP7/IMPORIN 7.	sp Q95373 Q95373	70%	238	321
HHPEP64	844953	1033	blastx.2	SERINE-ARGININE-RICH SPLICING REGULATORY PROTEIN SRP86.	sp Q9JKL7 Q9JKL7	54%	1100	1165
HHPEP60	799535	1035	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp Q60448 Q60448	54%	1033	749
						99%	3	389
						57%	14	187
						65%	731	429
						62%	731	555
						68%	703	566
						68%	568	503
						85%	498	457
						58%	489	439
						81%	471	439
						60%	500	432
HHPEB79	863749	2603	WUblastx.6 4	Similar to a C.elegans protein encoded in cosmid C27F2 (U40419) [Homo sapiens]	dbj BAA13387.1	69%	1303	2400
HHPEB34	701992	1043	blastx.2	CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q9NXX8 Q9NXX85	80%	601	1185
HHFTZ01	847388	1044	blastx.2	CDNA: FLJ21676 fis, clone COL09164.	sp BAB15113 BAB15113	62%	953	789
HHFTG17	663531	1045	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	sp BAB15113 BAB15113	68%	795	691
HHFGJ54	731870	1046	blastx.2	CDNA FLJ13099 fis, clone NT2RF3002248.	dbj BAB21918.1	40%	808	668
HHFGJ38	833063	1047	blastx.2	PRO2550.	sp AAG35515 AAG35515	84%	915	1820
HHFGZ23	721653	1049	blastx.2	hypothetical protein 3 - human	sp AAG35515 AAG35515	100%	772	1080
HHFHG26	608250	1050	blastx.2	FLJ00047 protein (Fragment).	sp BAB14438 BAB14438	73%	1159	1272
HHFH47	638181	1051	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp BAB15745 BAB15745	75%	1424	1269
					sp Q60448 Q60448	96%	510	1259
						99%	1232	1645
						56%	2764	2465
						64%	978	1136
						66%	724	578
						56%	859	497
						55%	850	671
						62%	804	670
						72%	681	616
						76%	680	618

HHGAA76	767745	1052			ORF2-LIKE PROTEIN (FRAGMENT).	sp Q00549 Q00549	54% 84% 44% 75%	101 611 110 100	3 573 3 65
HHGAD46	812646	1053			BK65A6.2 (NOVEL SUSHI DOMAIN (SCR REPEAT) CONTAINING PROTEIN 1 CDNA: FLJ21394 fts, clone COL03536.	sp Q00549 Q00549	57% 74% 70% 68%	888 1455 1022 1156	409 1294 870 1025
HHGBC21	840455	1055			hypothetical protein [imported] - human	sp Q00549 Q00549	98% 83%	148 3	783 203
HHGBW55	638183	1059			POSSIBLE (HHV-6) U102, VARIANT A DNA, COMPLETE VIRION 1	sp BAB15056 BAB15056	62%	1130	858
HHGDI12	747680	1063			CDNA FLJ11786 fts, clone HEMBA1006036.	sp T50835 T50835	97%	3	143
HHGDR05	610266	1064			UNNAMED PORTEIN PRODUCT.	sp Q00549 Q00549	67% 72%	1239 1240	1120 1112
HHGDR92	840454	1065			CDNA FLJ11786 fts, clone HEMBA1006036.	sp BAB13911 BAB13911	63%	821	690
HHGDS56	66379	1066			PRO0898.	sp Q00549 Q00549	99%	10	1104
HHGDS65	825652	1067			UNNAMED PORTEIN PRODUCT.	sp Q00549 Q00549	60% 58%	1482 809	1207 510
HHHPE28	877640	1071			CDNA: FLJ22673 fts, clone HSU0503.	sp Q00549 Q00549	98%	393	596
HHHPEB61	658693	1075			CDNA: FLJ21463 fts, clone COL04765.	sp BAB15071 BAB15071	62% 60% 38%	607 777 551	804 920 712
HHHPP26	753269	1076			CDNA FLJ12799 fts, clone NT2RP2002078, weakly similar to 1	sp BAB14277 BAB14277	100%	987	1742
HHHPS11	570807	1077			CDNA: FLJ21463 fts, clone COL04765.	sp BAB15071 BAB15071	50%	402	587

HHPPTS18	829347	1079	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	68%	2600	2430
HHPGH34	535780	1080	blastx.2	PRO1902 PROTEIN.	sp Q9UHT1 Q9UHT1	68% 65%	964 1023	833 964
HHPGU74	821486	1081	blastx.2	histidine-rich protein - Plasmodium falciparum (fragment)	pir A54523 A54523	57% 56% 56% 72% 74% 74% 74% 73% 73% 73% 62% 72% 72% 72% 60% 72%	2112 2112 2112 2112 2112 2112 2112 2112 2112 2112 2112 2112 2112 2112 2112 2112	2017 2017 2017 2038 2038 2038 2038 2038 2041 2041 2032 2038 2038 2038 2038 2032 2038
HHPGU87	658694	1082	blastx.2	3'-5'-cyclic-nucleotide phosphodiesterase (EC 3.1.4.17) 8A.1	pir JW0088 JW0088	100%	1050	1286
HHPSH74	638185	1087	blastx.2	HISTONE DEACETYLASE 6 (HD6).	sp Q9UBN7 HDAC_HUMAN	88% 74% 99% 81% 54% 45% 53% 30% 43% 66% 87% 84%	734 1104 10 525 10 794 323 755 1920 1024 588 451	1339 1730 321 770 321 1306 571 1102 1967 752 442 335
HHPPTF26	857654	1090	blastx.2	(AB055293) hypothetical protein [Maecaca fascicularis]	dbj BAB21918.1			
HHSAE74	839473	1092	blastx.2	PRO1546.	sp Q9P1J1 Q9P1J1			
HHSAG62	847392	1093	blastx.2	CDNA FLJ13898 fis, clone	sp BAB14741 BAB14741	99%	600	1070

HHSD43	812510	1100	HMIMER 2.1.1 blastx.2	THYRO1001738, weakly similar to 1 PFAM: Zinc finger, C2H2 type	PF00096	99% 100% 117.4	2 533 877	460 604 945
HHSDL07	899430	1101	blastx.2	hypothetical protein DKFZp434H0127.1 - human (fragment)	pm1742688[142688]	99%	25	1344
HHSDX07	847393	1102	blastx.2	C380A1.2.1 (NOVEL PROTEIN (ISOFORM 1)).	sp Q9UJH9 Q9UJH9	100%	9	317
HIABC70	833605	1107	blastx.2	CDNA FLJ10814 FIS, CLONE NT2RP4000984.	sp Q9NVV4 Q9NVV4	95% 92%	434 512	1066 512
HIBCO70	853360	1109	HMIMER 2.1.1 blastx.2	AFOLIPROTEIN B48 RECEPTOR.	sp Q9NPJ9 Q9NPJ9	100%	15	1160
HIBDA41	603909	1111	blastx.2	PFAM: Myelin proteolipid protein (PLP or lipophilin)	PF01275	32.3	127	192
HIBEC45	822854	1112	blastx.2	CDNA: FLJ22206 fis, clone HRC01431 (Fragment).	sp BAB15260 BAB15260	99%	299	1651
HILBW03	841377	1113	blastx.2	PRO2550. (AB05293) hypothetical protein [Macaca fascicularis]	sp AAG35315 AAG35315 dbj BAB21918.1	80% 58%	404 975	697 1283
HISAE16	845233	1114	blastx.2	CDNA: FLJ12463 fis, clone COL04765.	sp Q9NVV4 Q9NVV4	97%	654	1163
HISAG53	843902	1115	blastx.2	(ALJ21845) d1583P15.3 (novel protein) [Homo sapiens]	sp BAB15071 BAB15071	85%	7	90
HISAN63	797658	1116	blastx.2	PUTATIVE P150.	emb CAC0670.1	98% 71%	127 84	1614 152
HISAT78	840961	1117	blastx.2	(AL034548) dJ1103G7.7 (PUTATIVE novel protein) [Homo sapiens]	sp O00363 O00363	35% 30% 30% 87%	716 1609 1299 1527	384 1280 1045 1504
HISBA38	561711	1118	blastx.2	CDNA FLJ20489 FIS, CLONE	emb CAB81631.1	86% 46% 97% 66% 37%	271 15 114 155 538	615 743 280 615 678

HISBB66	839808	1119	blastx.2	KAT08285. POTENTIAL TRANSCRIPTIONAL REPRESSOR NOT4HP.	sp Q95627 Q95627	98%	2	451
HISEJ52	886777	1123	blastx.2	CALCINEURIN-BINDING PROTEIN CABIN 1 (CALCINEURIN 1 PRO2550).	sp Q9Y60 CABL_HUMA N	99%	480	1697
HJABC58	753272	1124	blastx.2		sp AAG35515 AAG35515	58% 88% 76%	1232 993 1060	1059 998 1221
HJABS31	825607	1127	blastx.2	(AY009109) ring-H2 protein [Homo sapiens]	gb AAG49400.1	98%	1	
HJACE25	835517	1129	blastx.2	RNA POLYMERASE II TERMINATION FACTOR.	sp O75921 O75921	91% 95%	64 381	390 662
HJACK21	664506	1130	blastx.2	CG3138 PROTEIN.	sp Q9W488 Q9W488	46% 56%	533 12	1114 530
HJBCG74	839361	1131	blastx.2	MULTIPLE INOSITOL POLYPHOSPHATE PHOSPHATASE.	sp Q9UNW1 Q9UNW1	99% 100%	560 33	1492 560
HJBCO21	695727	1132	blastx.2	HSPC024-ISO.	sp Q9Y6E5 Q9Y6E5	99%	9	491
HJBCQ40	831119	1133	blastx.2	CDNA FLJ12893 fis, clone NT2RP2004165.	sp BAB14330 BAB14330	44% 31% 33% 40%	553 133 217 343	780 573 429 468
HJBDM36	773168	1134	blastx.2	SNARE PROTEIN YKT6.	sp O15498 O15498	100%	127	720
HJMAZ60	844796	1137	blastx.2	CG5276 PROTEIN.	sp Q9VGN8 Q9VGN8	53%	110	1054
HJMBB20	824264	1138	blastx.2	(AF327434) glutaminase [Homo sapiens]	gb AAG47842.1 AF32743 4.1	99%	3	383
HJMBB20	842673	1139	blastx.2	GLUTAMINASE, KIDNEY ISOFORM, MITOCHONDRIAL PRECURSOR (EC 1.	sp O94925 GLSK_HUM AN	100%	4	1317
HJMBB20	844890	1140	blastx.2	GLUTAMINASE, KIDNEY ISOFORM, MITOCHONDRIAL PRECURSOR (EC 1.	sp O94925 GLSK_HUM AN	100%	4	1317

HIMB59	664490	1141	blastx.2	DYNACTIN SUBUNIT. PROTEIN HSPC163.	sp Q57593 Q57593 N	100%	2	286
HIMB01	638190	1142	blastx.2		sp Q9P003 H163_HUMA	100%	13	174
HIPAF69	589794	1146	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	70%	216	395
HIPAQ19	566832	1147	blastx.2	hypothetical protein DK7Zp564O092.1 - human (fragment)	pir T08694 T08694	70%	439	531
HIPAZ35	845379	1148	blastx.2	HSPC025.	sp Q9V262 Q9V262	100%	9	920
HIPBI77	602875	1149	blastx.2	CG101355 PROTEIN.	sp Q9V756 Q9V756	42%	54	1745
HIPBN96	610087	1150	blastx.2	CDNA FLJ20500 FIS, CLONE KAT09159.	sp Q9NXX0 Q9NXX09	100%	16	249
HIPBU47	824063	1151	blastx.2	8D6 ANTIGEN (FRAGMENT).	sp Q9NPM0 Q9NPM0	100%	106	288
HJPDK61	844034	1154	blastx.2		sp Q9V7R7 Q9V7R7	92%	329	844
HKABI53	805966	1155	blastx.2	CG3831L PROTEIN. CC3 (CC3).	sp Q15383 O15383	100%	240	377
HKABN63	566840	1156	blastx.2	hypothetical protein F10M10.130 - Arabidopsis italiana	pir T04782 T04782	77%	315	380
HKACA25	824087	1157	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp Q9V7R7 Q9V7R7	73%	261	329
HKACO64	897591	1158	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q15383 O15383	42%	466	1209
HKACX90	604042	1160	blastx.2		sp BAB15071 BAB15071	98%	212	778
HKADJ27	1028177	1161	WUblast.6 4		sp Q9N083 Q9N083	93%	126	212
HKADN26	802131	1162	blastx.2	CG15525 PROTEIN. (AF023657) endo-alpha-D- mannosidase [Rattus norvegicus] (AY012159) virion-associated nuclear-shuttling protein [Mus	sp Q9VAC7 Q9VAC7 gb AA6925.1 gb AA642155.1	55%	55	222
						46%	272	577
						50%	115	234
						63%	1268	1573
						42%	1153	950
						60%	730	593
						46%	893	804
						44%	803	750
						32%	966	820
						46%	31	486
						65%	302	562
						51%	531	602
						87%	574	1512
						85%	47	148
						58%	289	324

HKADT55	668243	1164	blastx.2	musculus (AJ289772) RNA binding motif protein 12 [Homo sapiens]	emb CAC20441.1	99%	13	708
HKAES8	695729	1165	HMMER 2.1.1 blastx.2	PFAM: Acyl-CoA dehydrogenase ACYL-COENZYME A DEHYDROGENASE-8 PRECURSOR (CDNA FLJ20352 FIS, CLONE HEP14524).	PF00441	449.8	160	1269
HKAER72	840457	1166	HMMER 2.1.1 blastx.2	PFAM: Sugar (and other) transporter SUGAR TRANSPORTER (GLUCOSE TRANSPORTER 9).	PF00083	70.8	270	575
HKAFAQ1	847281	1168	blastx.2	(AL035669) d18851.7.6 (transcription factor-like 5 (basic helix-loop-helix)) [Homo sapiens]	sp Q9UGQ3 Q9UGQ3	99%	9	602
HKAHH71	846826	1169	blastx.2	CG7950 PROTEIN.	sp Q9VAA6 Q9VAA6	53%	31	378
HKAU90	838608	1171	blastx.2	(AF197954) adenocarcinoma antigen ART1 [Homo sapiens]	gb AAAG28523.1 AF197954_1	98%	19	1251
HKFAA15	753275	1173	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	71% 80%	1768 1596	1580 1471
HKGAI81	581063	1176	blastx.2	PRO2550.	sp AAG3551 AAG35515	70% 81% 37%	641 445 1327	429 335 1166
HKGAK45	809093	1177	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	75%	2111	1815
HKGAP57	841627	1179	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp Q9NX85 Q9NX85	68% 72% 59%	946 639 1903	767 639 1838
HKGAW41	858745	1180	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	71% 68%	1622 1458	1431 1327
HKGBA21	822870	1181	blastx.2	L1 ELEMENT L1.21 P40 PROTEIN.	sp O00371 O00371	54% 30%	1279 810	1731 1073

HKGBC33	823368	1182	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	31%	1358	1783
HKGBC73	608169	1183	blastx.2	PRO2852.	sp AA033505 AA033505	70%	1755	1784
HKGBF61	658697	1184	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	77%	1032	724
						87%	1036	1013
						76%	8	124
						63%	1160	981
						42%	1285	1037
						66%	1135	980
						44%	1715	1524
						50%	1758	1540
						56%	1160	1038
						43%	193	14
						65%	1023	928
						47%	1685	1554
						51%	1676	1542
						42%	1195	1019
						52%	1139	1065
						80%	1176	1132
						41%	1758	1657
						62%	61	14
						44%	975	901
						57%	66	16
						80%	978	949
HKGBH54	388482	1185	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	61%	2107	1907
HKGBP52	899282	1186	blastx.2	CDNA FLJ20378 FIS, CLONE KAI0536.	sp Q9NX83 Q9NX83	68%	2220	2086
HKGCE62	638200	1188	blastx.2	UNNAMED PROTEIN PRODUCT.	sp Q9N083 Q9N083	76%	1726	1556
HKGC41	559327	1189	blastx.2	MIB001 PROTEIN.	sp Q9N089 Q9N089	68%	1562	1440
HKGC41	795256	1190	blastx.2	MIB001 PROTEIN.	sp Q9N089 Q9N089	60%	1157	984
HKGDA93	581064	1193	blastx.2	BAI08L7.7 (NOVEL PROTEIN SIMILAR TO C. ELEGANS C25A1.13.1)	sp Q9NTP0 Q9NTP0	69%	994	857
						100%	20	613
						100%	31	621
						99%	77	667
HKGDO12	857225	1194	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	39%	366	713
						78%	1461	1222
						57%	1220	1143

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HKMLF77	604743	1204			blastx.2	PRO2550.	sp AAG35515 AAG35515	96%	587	685
								96%	587	685
								93%	588	686
								90%	589	687
									587	685
								70%	633	433
								66%	773	684
								41%	532	446
								66%	672	628
								68%	991	860
HKMLM32	826523	1205			blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp BAB1391 BAB13911			
HKMLR17	847432	1206			HMMER 2.1.1	PFAM: CUB domain	PF00431	145	425	760
					blastx.2	PROCOLLAGEN C-TERMINAL PROTEINASE ENHANCER PROTEIN 2.	sp Q9UKZ9 Q9UKZ9	100%	8	1210
HKMLT89	826167	1207			blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB1507 BAB15071	66%	1270	1118
HKMLV05	663924	1208			blastx.2	PRO2550.	sp AAG35515 AAG35515	79%	1595	1290
HKMLV25	695731	1209			blastx.2	LR8.	sp Q9Y609 Q9Y609	98%	2	334
								97%	328	474
HKMMP90	746876	1213			blastx.2	ORF 73.	sp O40947 O40947	40%	266	340
								24%	1054	1677
								24%	1060	1701
								25%	1054	1659
								24%	1054	1716
								23%	1054	1623
								24%	1012	1716
								24%	1054	1569
								22%	1012	1716
								30%	237	398
								32%	237	407
								29%	240	443
								30%	210	317
HKPAC10	527238	1215			blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp BAB1391 BAB13911	58%	991	677
HKPAC50	830367	1216			blastx.2	NADH-UBIQUINONE	sp O95139 NB7M_HUM	84%	106	324

HKTAC18	831292	1218			OXIDOREDUCTASE B17 SUBUNIT (EC 1.6.5.3) 1 (FRAGMENT).	AN				
HLISA89	839594	1219	blastx.2		SORTING NEXIN 13 (FRAGMENT).	sp Q9Y5W8 SNXD_HU MAN	96% 88% 3	38	400	53
HL2AB60	722226	1220	blastx.2		MITOCHONDRIAL 28S RIBOSOMAL PROTEIN S2 (MRP-S2).	sp Q9Y399 Q9Y399	99%	63	653	
HL3AF32	753468	1222	blastx.2		ANCIENT UBIQUITOUS PROTEIN 1 PRECURSOR.	sp Q9Y5F2 Q9Y5F2	99%	397	1293	402
HLDAV70	623603	1223	blastx.2		CG18445 PROTEIN.	sp Q9Y399 Q9Y399	37%	9	524	
HLDBL62	899498	1224	blastx.2		DYNACTIN P62 SUBUNIT (CDNA FLJ20292 FIS, CLONE HEPO5374).	sp Q9Y399 Q9Y399	100%	175	285	
HLDBV18	805684	1225	blastx.2		HEPATOCYLLULAR CARCINOMA-ASSOCIATED ANTIGEN 112.	sp Q9NYC7 Q9NYC7	100%	36	740	
HLDBV54	570813	1226	HMMER 2.1.1		CDNA: FLJ21022 fis, clone CAE06383.	sp BAB14957 BAB14957	99%	284	1198	
HLDNF18	821599	1230	WUblastx.6 4		PFAM: Sec1 family	PF00995	18.7	180	332	
HLDNH84	612801	1231	blastx.2		CDNA: FLJ22976 fis, clone KAT11222 (Fragment).	sp BAB15513 BAB15513	92% 65%	707 663	787 785	
HLDD77	610208	1232	blastx.2		product [Homo sapiens] UNNAMED PROTEIN PRODUCT.	dbj BAA91392.1	78%	17	583	
HLDO74	812655	1233	blastx.2		PVA1 GENE.	sp Q9N083 Q9N083	56% 57%	574 743	753 883	
HLDRU08	701995	1235	blastx.2		cytochrome-c oxidase (EC 1.9.3.1) chain II - human mitochondrion	sp Q26195 Q26195	62% 66%	596 694	414 632	
HLDXF43	514022	1236	blastx.2		NT2R14000588.	sp Q9NVD7 Q9NVD7	100%	21	671	
HLAA10	824265	1237	blastx.2		CDNA FLJ10793 FIS, CLONE NT2R14000588.	sp Q9NVD7 Q9NVD7	99%	13	729	
HLAA10	824265	1237	blastx.2		cytochrome-c oxidase (EC 1.9.3.1) chain II - human mitochondrion	pir A00472 QBHU2	64%	164	559	
HLAA10	824265	1237	blastx.2		MARINER TRANSPOSASE.	sp Q13579 Q13579	78% 85%	738 842	13 741	

HLHAE14	865625	1239	blastx.2	HYPOTHEICAL PROTEIN (FRAGMENT).	sp Q14287 Q14287	60% 37%	1968 1819	1804 1667
HLHAE14	886763	1240	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q14287 Q14287	60% 38%	1969 1820	1805 1680
HLHBS54	837503	1241	blastx.2	SELENOPROTEIN N	sp Q9NZV5 SELN_HUM AN	94%	1	1488
HLHCC324	847398	1244	blastx.2	PRECURSOR. CDNA: FLJ21463 fis, clone COL04765.	sp BAB1507 BAB15071	78% 95%	1124 891	900 829
HLHCT96	886178	1247	blastx.2	PRO1722.	sp Q9P195 Q9P195	68% 65% 55%	2132 1823 1915	1917 1695 1841
HLHDJ05	841732	1250	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	66% 68% 66%	708 830 707	547 708 672
HLHDL37	847399	1251	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	78%	690	571
HLHDL69	883335	1252	blastx.2	PEPTIDE/HISTIDINE TRANSPORTER.	sp O09014 O09014	87% 88%	598 305	1314 592
HLHDL69	850691	1253	blastx.2	PEPTIDE/HISTIDINE TRANSPORTER.	sp O09014 O09014	88% 75%	330 305	1484 340
HLHDL69	843836	1254	blastx.2	PEPTIDE/HISTIDINE TRANSPORTER.	sp O09014 O09014	88% 75%	330 305	1484 340
HLHDL69	855906	1255	blastx.2	PEPTIDE/HISTIDINE TRANSPORTER.	sp O09014 O09014	88% 75%	330 305	1484 340
HLHDM38	566843	1256	blastx.2	hypothetical protein DKFZp434L0130.1 - human	pir T4647 T46471	61% 45% 41%	476 6 172	886 326 339
HLHDR92	692150	1257	blastx.2	PRO2550.	sp AAG35515 AAG35515	54% 74% 77%	1268 1267 1171	1104 1175 1106
HLHDY94	847121	1258	blastx.2	HYPOTHETICAL 43.0 KDA PROTEIN.	sp O00572 O00572	73% 88%	18 619	842 876
HLHEI72	874180	1261	HMMER 2.1.1 blastx.2	PFAM: Eukaryotic protein kinase domain	PF00069	106.7	101	403
				SIMILARITY IS TO SERINE/THREONINE-	sp Q9Y6S4 Q9Y6S4	97% 91%	89 589	526 657

				PROTEIN KINASE (FRAGMENT).				
HLHX62	608285	1262	blastx.2	PRQ2550.	sp AAG35515 AAG35515	70%	1117	833
HLHFK59	581065	1263	blastx.2	hypothetical protein C0845c - malaria parasite (Plasmodium falciparum)	pir I18513 I18513	70%	715	816
HLHFP09	805967	1264	blastx.2	DJ455C12.3 (MATRILIN-4).	sp Q9Y524 Q9Y524	99% 38%	3 102	881 737
HLHGG78	638210	1265	blastx.2	DIPHOSPHOINOSITOL POLYPHOSPHATE PHOSPHOHYDROLASE.	sp O95989 O95989	100%	10	291
HLHSQ35	570814	1267	blastx.2	RNA BINDING PROTEIN NAPOR-3 (FRAGMENT).	sp Q9JIX6 Q9JIX6	87% 100%	711 671	827 712
HLHTP55	847322	1269	blastx.2	CDNA: FLJ121463 fis. clone COL04765.	sp BAB15071 BAB15071	56% 50%	462 320	635 433
HLIBD74	604914	1270	blastx.2	CDNA: FLJ121128 fis. clone CAS06258.	sp BAB15001 BAB15001	98%	12	290
HLIBE41	772762	1271	blastx.2	(AF338424) coenzyme A diphosphatase [Mus musculus]	gb AAK07483.1 AF338424_1	59%	77	409
HLIAX64	827292	1275	blastx.2	DnaJ-like protein MTJ1 - mouse	pir JC40300 JC4030	88% 74% 89% 30% 32% 66% 45% 36% 36%	395 1023 27 758 1257 364 1428 536 761	1057 1502 416 973 1478 417 1499 676 817
HLIAX95	588405	1276	blastx.2	PVAL GENE.	sp Q26195 Q26195	52%	406	1379
HLIMCT151	772579	1280	blastx.2	CDNA FLJ11786 fis. clone HEMB4106036.	sp BAB13911 BAB13911	72%	1510	1194
HLIMCT95	570815	1281	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj JBAB21918.1	61% 60%	1445 1192	1194 720
HLIMDD65	566891	1282	blastx.2	INTERFERON-REGULATED RESISTANCE GTP-BINDING PROTEIN MXA 1	sp P20591 MX1_HUMA N	96% 100%	571 489	575 575

HLMTB62	604915	1285	blastx.2	CDNA: FLJ21617 fs, clone COL07481.	sp BAB15100 BAB15100	68%	154	2
HLMFU53	801936	1287	blastx.2	LNV.	sp AAG15398 AAG15398	81%	1141	620
HLMHG68	580850	1288	blastx.2	(AL139449) bA261P9.2 (putative novel protein similar to fly CG7340) [Homo sapiens]	emb CAC19813.1	96%	305	775
HLMHN06	853606	1289	blastx.2	probable transposase - human transposon MER37	prt S72481 S72481	80%	262	107
HLMIM84	588487	1291	blastx.2	CGH-105 PROTEIN.	sp Q9Y3B0 Q9Y3B0	98%	456	286
HLMIW76	570816	1294	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp Q9Y3B0 Q9Y3B0	91%	296	806
					sp Q60448 Q60448	65%	776	474
						65%	770	591
						69%	736	590
						85%	531	490
						63%	601	536
						57%	528	472
						59%	600	555
						57%	528	472
HLQAD72	853613	1298	HMMER 2.1.1	PFAM: Pancreatic ribonucleases	PF00074	213.4	208	564
			WUblastx.6 4	RNAse 4 [Homo sapiens]	dbj BAA07150.1	90%	124	564
HLQAM30	609880	1299	blastx.2	PRO1902 PROTEIN.	sp Q9UHT1 Q9UHT1	73%	617	480
						57%	490	398
						76%	648	610
HLQAM59	560662	1300	blastx.2	UNNAMED PROTEIN PRODUCT.	sp Q9N044 Q9N044	70%	818	1051
HLQCY09	745384	1304	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	58%	759	505
						44%	1025	945
						57%	884	843
HLQDK45	621414	1307	blastx.2	RBP-MS/TYP2E 3.	sp Q92517 Q92517	100%	609	737
HLQDM47	743237	1308	blastx.2	giant protein p619 - human	prt S71752 S71752	92%	377	616
HLSD72	588406	1310	blastx.2	SIMILAR TO RING-H2	sp Q9SNH1 Q9SNH1	100%	495	433
				FINGER PROTEIN RHA1A.		100%	495	433
HLTDM20	610269	1317	blastx.2	CDNA: FLJ22385 fs, clone HRC07610.	sp BAB15330 BAB15330	95%	58	186
						70%	5	76

HLTD165	740756	1318	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp Q60448 Q60448	61% 46% 60% 47% 63% 42% 48% 36% 51% 68% 57% 54% 48% 55% 30% 69% 42% 33% 47%	1263 1315 1275 1484 2027 2149 2018 2079 1464 1848 1457 2095 1958 1443 1955 1939 1530 1513 1296 2095	1463 1608 1484 2027 2149 2018 2079 1464 1848 1457 2095 1958 1443 1955 1939 1530 1513 1296 2095
HLTDK30	834810	1319	blastx.2	CDNA FLJ12133 fis, clone MAMMA1000278.	sp BAB13983 BAB13983	97% 97% 100%	740 213 502	1180 506 747
HLTDL37	638213	1320	blastx.2	CGI-74 PROTEIN.	sp Q9Y383 Q9Y383	98% 33% 39% 39% 66%	2 302 614 653 1084	1120 1123 1021 994 1155
HLTDU35	827293	1321	blastx.2	PRO2738.	sp Q9P1C6 Q9P1C6	37% 78% 60%	1127 938 906	954 902 823
HLTDX04	596818	1322	blastx.2	(AP002460) gene_id F1D9.26-unknown protein [Arabidopsis thaliana]	dbj JBA07098.1	90% 93% 93% 93% 93%	1337 1340 1340 1340 1340	1468 1468 1468 1468 1468

Figure 1

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HLTEH84	782094				blastx.2	CDNA: FLJ23188 fis, clone LNG12038.	sp BAB15571 BAB15571	93%	1340	1468
HLTEL39	853615				blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	93%	1340	1468
HLTEW52	663148				blastx.2	CDNA FLJ20378 FIS, CLONE KAI/A0536.	sp Q9NX83 Q9NX83	93%	1340	1468
HLTEZ26	821676				blastx.2	PRO2530.	sp AAG35513 AAG35515	93%	1340	1468
HLTGG14	824068				blastx.2	UNNAMED PROTEIN PRODUCT.	sp Q9N032 Q9N032	80%	1315	1467
HLUAF94	794116				blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	90%	1341	1469
HLWAH33	855954				blastx.2	PRED43 PROTEIN (FRAGMENT).	sp Q9NSI3 Q9NSI3	90%	1341	1469
HLWAO11	885339				blastx.2	Polydom protein precursor.	sp AAG32160 AAG32160	88%	1340	1468
					blastx.2			81%	1323	1466
								97%	15	491
								67%	1545	1387
								39%	1391	1218
								83%	1534	1244
								76%	7	171
								70%	1142	1020
								64%	1430	1206
								52%	1492	1430
								100%	1660	1761
								96%	25	102
								78%	14	2656
								33%	14	2371
								30%	152	2635
								33%	2	2383
								30%	14	2371
								32%	14	1627
								29%	14	1699
								28%	506	1408
								32%	680	1426
								31%	14	646

HLWAX50	809094	1333	blastx.2	ADAM 12 PRECURSOR (EC 3.4.24.-) (A DISINTEGRIN AND 1	sp 043184 ADI2_HUMAN	30%	2	628
								38
						30%		640
								1990
						24%		494
								161
						28%		787
								1469
						32%		2020
								2617
						34%		373
								14
						41%		2635
								2369
						42%		2641
								80
						33%		448
								1019
						35%		1297
								170
						27%		964
								1969
						29%		1472
								1745
						33%		2074
								14
						25%		478
								1886
						28%		2179
								2456
						44%		2635
								2369
						44%		2545
								1310
						25%		1771
								2249
						29%		2638
								1430
						32%		1654
								1142
						23%		1609
								1145
						36%		1288
								2003
						36%		2110
								1382
						19%		2194
								95
						35%		187
								455
						25%		709
								636
						33%		636
								2354
						28%		2560
								440
						25%		673
								869
						32%		961
								173
						33%		271
								1629
HLWAX50	809094	1333	blastx.2	ADAM 12 PRECURSOR (EC 3.4.24.-) (A DISINTEGRIN AND 1	sp 043184 ADI2_HUMAN	96%		628
								1587
						93%		2285
								197
						93%		661
								178
						64%		255
								1553
						43%		1669

HLWBK16	638217	1335	blastx.2	ACTIN-BINDING PROTEIN HOMOLOG ABP-278.	sp Q9UEV9 Q9UEV9	94% 41%	679 706	1191 1185
						37%	688	1173
						37%	703	1185
						38%	706	1185
						34%	691	1185
						34%	730	1188
						43%	590	1000
						33%	691	1170
						36%	715	1149
						32%	688	1179
						31%	703	1182
						28%	703	1176
						30%	664	1179
						33%	727	1164
						30%	703	1188
						33%	691	1158
						28%	691	1185
						30%	682	1185
						31%	691	1179
						32%	745	1125
						30%	748	1125
						35%	590	865
						37%	853	1125
						37%	593	775
						43%	593	778
						42%	593	784
						32%	949	1173
						41%	593	778
						32%	551	775
						45%	593	733
						32%	572	784
						44%	593	721
						46%	590	700
						52%	605	700
						54%	593	679
						36%	599	712

HLVJA79	608289	1339	blastx.2	H+-transporting ATP synthase (EC 3.6.1.34) protein 6 - human mitochondrion	pir A01049 PWHU6	40% 34%	599 673	700 750
HLVAT54	581067	1342	blastx.2	CDNA FLJ12802 fis. clone NT2RP2002124, weakly similar to 1	sp BAB14279 BAB14279	79%	196	807
HLVBC81	588490	1343	blastx.2	NAG13.	sp BAB14279 BAB14279	93%	35	220
HLVBD09	610019	1344	blastx.2	CDNA FLJ20378 FIS, CLONE KALA0536.	sp AAG27485 AAG27485	43% 43%	1373 1312	1711 1380
HLVBL67	834538	1345	blastx.2	(AB055298) hypothetical protein [Macaca fascicularis]	sp Q9NX85 Q9NX85	57%	1391	1537
HLVBN23	667995	1347	blastx.2	PRO0478 PROTEIN.	dbj BAB21923.1	69% 59% 80%	1546 176	1644 235
HLVBT28	608152	1350	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9UI59 Q9UI59	80% 83%	1333 1397	1395 1450
HLVBY04	596819	1352	blastx.2	CDNA FLJ20489 FIS, CLONE KAI08285.	sp Q9NU83 Q9NU83	57%	1082	774
HLVCE15	621407	1353	blastx.2	CDNA FLJ14310 fis. clone PLACE3000271.	sp Q9NX17 Q9NX17	69% 65%	1565 1413	1389 1261
HLVCH04	608295	1354	blastx.2	LINE-1 ELEMENT ORF2.	sp BAB14900 BAB14900	75%	547	425
HLVDE38	735987	1356	blastx.2	UNNAMED PORTEIN PRODUCT.	sp B62658 B62658	47% 45%	106 7	273 39
HLVYG55	835625	1357	blastx.2	CDNA: FLJ23147 fis. clone LNG09295.	sp Q9NU83 Q9NU83	64% 47%	1106 987	1005 835
HLVYEA60	685469	1359	blastx.2	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)	sp BAB15557 BAB15557	72%	641	423
HLVYJ14	853362	1360	blastx.2	GLYCOSYLPHOSPHATIDYL INOSITOL-ANCHORED PROTEIN GPI-80.	pir A46010 A46010	66%	177	28
HLVYJ44	838149	1361	blastx.2	(ALJ21845) d1583P15.4.1 (novel protein (translation of	sp Q9UMW2 Q9UMW2	100%	94	1653
					emb CAC05671.1	90% 53%	225 124	1007 420

				cDNA FLJ20406 (Em:AK000413)) [Homo sapiens]				71%	371	517
HLXEU51	607815	1362	blastx.2	CDNA FLJ20378 FIS, CLONE KAL00536			sp Q9NX85 Q9NX85	78% 67%	857 691	708 563
HLXGV19	826334	1363	blastx.2	(AL136610) hypothetical protein [Homo sapiens]			emb CAB66545.1	99%	144	644
HMAHK52	853363	1364	blastx.2	UNNAMED PROTEIN PRODUCT.			sp Q9N032 Q9N032	62%	1136	1002
HMAEL77	853365	1366	blastx.2	HYPOTHETICAL 30.9 KDA PROTEIN.			sp Q95564 Q95564	100%	8	325
HMACT74	843744	1367	blastx.2	gamma-interferon-inducible protein IP-30 precursor - human			pir A43708 A43708	94%	403	639
HMAIJ14	843725	1368	blastx.2	(AF305068) DC-specific transmembrane protein [Homo sapiens]			gb AAG39167.1 AF305068_1	90% 96%	47 871	880 945
HMAIJ74	795479	1369	blastx.2	(AF305068) DC-specific transmembrane protein [Homo sapiens]			gb AAG39167.1 AF305068_1	90% 85%	186 1010	989 1393
HMAEA58	872563	1370	blastx.2	CDNA FLJ20378 FIS, CLONE KAL00536.			sp Q9NX85 Q9NX85	71%	1339	1172
HMAIF01	837235	1371	blastx.2	RAB5 GDP/GTP EXCHANGE FACTOR HOMOLOGUE.			sp Q9UJ41 Q9UJ41	36% 99%	584 71	519 1543
HMCED78	829071	1373	blastx.2	CDNA FLJ20533 FIS, CLONE KAT10931.			sp Q9NWX5 Q9NWX5	98%	380	862
HMCIGJ47	699850	1375	blastx.2	SERINE PALMITOYLTRANSFERASE 1 (EC 2.3.1.50) (LONG CHAIN 1)			sp O15269 LCB1_HUMAN	98% 100%	495 11	1430 511
HMCCK88	654854	1376	blastx.2	DJ1056H12.1 (novel protein similar to mitogen inducible protein MIG-2 (isoform 1)) (Fragment).			sp CAC03433 CAC03433	52% 64%	982 506	449 336
HMCIH27	862038	1377	blastx.2	CDNA: FLJ21465 fis, clone COL04765.			sp BAB15071 BAB15071	70%	1305	1063
HMCIQ20	827296	1378	blastx.2	UNNAMED PROTEIN			sp Q9N083 Q9N083	69%	1119	1003

HMDAE88	638222	1381	blastx.2	PRODUCT: PRO0898.	sp AAG35479 AAG35479	81% 844 1010 1011	734 843 904
HMDAM39	602907	1385	blastx.2	PRO1722.	sp Q9P195 Q9P195	67% 648	388
HMEAA41	587304	1386	blastx.2	CDNA: FLJ22282 fis, clone HRC03861.	sp BAB15286 BAB15286	100% 9	419
HMEEH21	603187	1388	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	65% 280	504
HMEHZ07	638225	1390	blastx.2	F-BOX PROTEIN FBX9.	sp Q9UJK7 Q9UJK7	100% 795	917
HMEIH57	840370	1392	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q14288Q Q14288	53% 236 74% 238	190 11 650
						59% 847 58% 1348	1190 303
HMEI121	767276	1393	blastx.2	(AL136929) hypothetical protein [Homo sapiens]	emb CAB66863.1	57% 1691 66% 2388	840 1771 709 669
HMEIC96	761218	1395	blastx.2	MEMBRANE GLYCOPROTEIN GP36 PRECURSOR.	sp O60836 O60836	100% 193	
HMEID36	688860	1396	blastx.2	FLJ00047 protein (Fragment).	sp BAB15745 BAB15745	54% 1059	1199
HMEIK28	825591	1397	blastx.2	NON-HISTONE CHROMOSOMAL PROTEIN. HYPOTHETICAL 16.6 KDA PROTEIN (FRAGMENT).	sp O00479 O00479	100% 216	485
HMEKW44	825499	1399	blastx.2	(AL512735) hypothetical protein [Homo sapiens]	sp O18975 O18975	98% 7	198
HMEKW71	855955	1400	blastx.2	(AL512735) hypothetical protein [Homo sapiens]	emb CAC21666.1	96% 579	758
HMHBI09	847402	1403	blastx.2	54TMP.	sp Q95070 Q95070	59% 36	683
HMHBI93	844729	1404	blastx.2	TGFBI-INDUCED ANTI- APOPTOTIC FACTOR 1 (12 KDA 1	sp Q9ZLS4 TIAF_MOUSE E	100% 1391	1735
HMIAC52	825484	1406	blastx.2	HRIHFB2018 PROTEIN (FRAGMENT).	sp Q94792 Q94792	100% 67 70% 941	927 1201 1219
HMIAG42	846339	1408	blastx.2	REGULATOR OF G	sp O76081 O76081	38% 1118 100% 1080	1219 1730

HMIAG55	736020	1409	blastx.2	PROTEIN SIGNALING. ribosomal protein L11, cytosolic [validated] - rat	p p JT0606 RSRT11	67%	424	609
HMIAG72	824091	1410	blastx.2	CRE BINDING PROTEIN- LIKE 2.	sp O60519 O60519	100%	318	677
HMIA082	833070	1412	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	68%	2459	2695
						76%	2493	2693
						53%	2462	2755
						49%	1473	1802
						58%	1485	1679
						69%	1507	1665
						43%	2553	2780
						34%	2454	2708
						31%	1372	1794
						36%	2489	2758
						65%	1656	1742
						56%	1576	1665
						61%	1646	1723
						48%	1548	1661
						52%	1466	1537
						33%	1539	1667
						76%	2701	2739
						41%	1704	1790
						83%	1739	1774
						38%	2468	2560
						35%	1709	1801
						57%	2710	2751
HMIAR42	809096	1413	blastx.2	INTERFERON-RELATED DEVELOPMENTAL REGULATOR 1 (NERVE 1	sp O00458 FRL_HUMA N	99%	7	849
						91%	831	1052
						87%	1046	1165
HMIIV33	668252	1414	blastx.2	DNA L1 ELEMENT INSERTION IN INTRON 3 OF MITF GENE.	sp Q9QYM3 Q9QYM3	52%	1167	1346
						38%	1051	1182
						36%	431	126
						40%	612	418
						28%	1084	611
						41%	138	10
						25%	963	802

HMIBE95	804597	1417	blastx.2	probable transposase - human transposon MER37	pir[S72481 S72481	54% 60% 64% 62% 80%	1355 1932 1221 1783 1375	1948 2075 1355 1863 1434
HMKAN71	884161	1420	blastx.2	CDNA FLJ10983 FIS, CLONE PLACE1001781, WEAKLY SIMILAR TO 1	sp Q9NV22 Q9NV22	99%	12	1385
HMKBA33	596949	1421	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	59% 59% 49% 52% 68% 38% 46% 46% 40% 35% 48% 58% 42% 59% 37% 38% 35% 33% 45% 42%	1312 1689 1661 1336 1281 1622 1689 1148 1147 1225 1528 1233 1686 1142 1578 1592 1680 1314 498 677	1016 1459 1392 1118 1141 1371 1516 1002 971 1013 1400 1147 1603 1077 1393 1416 1516 1147 439 621
HMKCK32	561576	1423	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9NU83 Q9NU83	61%	619	335
HMKDD51	894846	1426	blastx.2	(AP002460) gene_id:FD9_26-unknown protein [Arabidopsis thaliana]	dbj BAA97098.1	54% 49% 49% 49% 49% 49%	896 878 878 878 878 878	1150 1150 1150 1150 1150 1150

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HMKDG69	588407	1427	blastx.2	pro-pol-dUTPase polypeptide - murine endogenous retrovirus ERV-L (fragment)	pifT29097/T29097	49%	878	1150
							878	1150
							878	1150
							878	1150
							878	1150
							878	1150
							878	1150
							878	1150
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							878	1150
							878	1150
							878	1150
							878	1150
							878	1150
							878	1150
							878	1150
						34%	700	116
						59%	104	24

HMKDM80	608168	1428	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	70% 71%	175 615	11 574
HMKEG88	634245	1429	blastx.2	PUTATIVE P150.	sp Q00378 Q00378	47%	294	4
HMMMA09	822859	1430	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	67%	1325	999
HMMAR92	610100	1431	blastx.2	PRO0478 PROTEIN.	sp Q9UI59 Q9UI59	76%	554	682
HMMBF22	780406	1434	blastx.2	CDNA FLJ10707 FIS, CLONE NT2RP3000859.	sp Q9NV19 Q9NV19	98% 96% 56% 32%	824 407 1228 875	1225 499 1341 1183
HMMBH94	607463	1436	blastx.2	CDNA FLJ20378 FIS, CLONE KAI0536.	sp Q9NX85 Q9NX85	80% 77%	896 724	741 593
HMMBK55	608179	1437	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	65% 66% 58%	766 521 480	527 468 430
HMMBT47	804594	1441	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	65% 65%	1238 1074	1047 937
HMMCD35	607840	1442	blastx.2	CDNA FLJ20378 FIS, CLONE KAI0536.	sp Q9NX85 Q9NX85	57%	811	521
HMMCT95	603202	1443	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	62% 58%	1658 1498	1494 1397
HMPAB26	580854	1444	blastx.2	DEATH DOMAIN CONTAINING PROTEIN CRADD CASPASE AND RIP 1 1	sp P78560 CRADD_HUMAN	100%	66	365
HMQAL38	589964	1446	blastx.2	immune-responsive gene 1 - mouse (fragment)	pir J54546 J54546	72%	11	1363
HMQAT69	799551	1447	blastx.2	SORTING NEXIN 9 (SH3 AND PX DOMAIN-CONTAINING PROTEIN 1) 1	sp Q9Y5X1 SNX9_HUMAN	94% 93% 82%	739 748 660	1842 748 809
HMQBL90	600363	1448	blastx.2	pre-B cell Ig lambda-like omega light chain (non-rearranging) 14.1 - human	pir A33911 A33911	76% 52%	974 879	1309 1091
HMQBV82	826522	1449	blastx.2	(AB055295) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	68% 40%	1005 651	868 592
HMQCA75	767086	1450	blastx.2	PRO1722.	sp Q9P195 Q9P195	70%	1072	944

HMOCB37	732168	1451	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	69% 50%	1161 1238	1063 1167
HMOCX41	603388	1453	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	55% 43%	16 192	204 260
HMQDM09	664494	1454	blastx.2	SELENOPTIN X 1 (PROTEIN HSPC270).	sp Q9NZV6 SELX_HUMAN	98%	38	385
HMSAP33	731969	1456	blastx.2	PRO0663 (FRAGMENT).	sp Q9UI48 Q9UI48	78%	1553	1398
HMSAZ48	877650	1457	blastx.2	probable pol polyprotein-related protein 4 - rat	pir S21348 S21348	46% 66%	793 722	1218 784
HMSBN18	847405	1458	blastx.2	ZNF258	sp Q95789 Q95789	65%	165	329
HMSBS25	826487	1459	blastx.2	K:CL COTRANSPORTER 3.	sp Q9Y642 Q9Y642	90% 77%	188 1019	346 1189
HMSBU14	844443	1460	blastx.2	hypothetical protein DKFZp761L0812.1 - human (fragment)	pir T47135 T47135	81% 54%	337 1081	384 1488
HMSCB94	847406	1462	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	80% 45%	1931 1690	1683 1589
HMSCK12	825475	1463	blastx.2	PRO1722.	sp Q9P195 Q9P195	81% 62%	622 771	491 613
HMSCV75	838530	1465	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	67% 45%	1438 1581	1301 1477
HMSCW44	716249	1467	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	61%	954	
HMSCZ19	847408	1468	blastx.2	(AL512760) hypothetical protein [Homo sapiens]	emb CAC21679.1	99% 91%	1 621	675 1124
HMSDI67	827298	1469	blastx.2	probable pol polyprotein-related protein 4 - rat	pir S21348 S21348	38% 55%	1748 1255	1284 1121
HMSDR28	801948	1471	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	72% 76%	1317 1097	1102 1035
HMSFT25	581069	1472	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15050 BAB15056	53% 68%	912 1088	1040 1144

HMSFW52	603177	1473	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	splBAB15071 BAB15071	67%	1348	1506
HMSGU30	847409	1475	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	splBAB15056 BAB15056	63%	1500	1631
HMSHB42	792385	1476	blastx.2	(AL136832) hypothetical protein [Homo sapiens]	emb CAB66766.1	57%	1489	1719
HMSHB42	600401	1477	blastx.2	(AL136832) hypothetical protein [Homo sapiens]	emb CAB66766.1	47%	1498	867
HMSHW72	855917	1478	blastx.2	Doublecortin.	splAAAG18479 AAG18479	99%	4	1203
HMSHW73	704099	1480	blastx.2	PRO1722.	splQ9P195 Q9P195	88%	650	754
HMSI36	825453	1482	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	splBAB15056 BAB15056	71%	2072	1935
HMSI42	581070	1483	blastx.2	PRO2822.	splQ9P147 Q9P147	65%	2131	2063
HMSIB08	877651	1484	blastx.2	hypothetical 33.6K protein - rabbit fibroma virus	pir Q1743 Q1743	62%	2214	2134
HMSIR44	638098	1487	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	splBAB15071 BAB15071	50%	51	221
HMSKO91	825450	1488	blastx.2	Hypothetical 15.8 kDa protein.	splAAAG17270 AAG17270	69%	23	61
HMTAF92	740784	1490	blastx.2	UBIQUITIN CARBOXYL-TERMINAL HYDROLASE 3 (EC 3.1.2.15) 1.1	splQ9Y614 UBP3_HUMA N	80%	1160	936
HMTAT36	811885	1491	blastx.2	CDNA: FLJ21620 fis, clone COL07838.	splBAB15101 BAB15101	36%	959	648
HMTAD65	809097	1493	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	splBAB15056 BAB15056	33%	1411	1037
HMTAT23	897758	1494	blastx.2	CDNA: FLJ22976 fis, clone KAT11222 (Fragment).	splBAB15513 BAB15513	72%	1015	803
HMTAT22	824071	1496	blastx.2	(AP002460)	db BAA97098.1	47%	1182	1012
						75%	798	712
						55%	715	596
						68%	864	742
						93%	2053	644
						100%	1380	1309
						93%	2211	2167
						100%	1	117
						67%	1524	1213
						100%	1982	2068
						100%	1983	2069
						96%	1981	2067
						82%	1968	2069
						96%	1982	2068
						96%	1981	2067
						71%	1582	1749

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Figure 6

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HMUBY57	844800	1501	blastx.2		CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	96%	651	809
HMUBZ15	609837	1502	blastx.2		hypothetical protein DKF7p564j0123.1 - human (fragment)	pir T08682 T08682	96%	651	809
HMVAL15	822860	1503	blastx.2		A-kinase anchor protein 95 - human	pir T13161 T13161	96%	651	809
HMVBC84	743191	1504	blastx.2		CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	96%	651	809
HMVBD68	831130	1505	blastx.2		catalase (EC 1.11.1.6) - Campylobacter jejuni	pir J40767 J40767	96%	651	809
HMVCG17	846161	1506	blastx.2		APOPTOSIS REGULATOR.	sp Q9NZS9 Q9NZS9	96%	282	458
HMVDT89	831127	1511	blastx.2		Sialic acid-specific acetyltransferase II.	sp AAG14897 AAG14897	100%	204	458
HMVDT89	875313	1512	blastx.2		Sialic acid-specific acetyltransferase II.	sp AAG14897 AAG14897	33%	89	151
HMWA065	839268	1513	blastx.2		HSPC280 (FRAGMENT).	sp Q9P0A1 Q9P0A1	98%	384	809
HMWA082	825427	1514	blastx.2		CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	99%	2	385
HMWVBK35	566888	1516	blastx.2		CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	100%	30	371
HMWVBL38	602940	1518	blastx.2		PRO2550.	sp AAG35515 AAG35515	84%	479	366
HMWVBN48	566828	1519	blastx.2		ribosomal protein L3 precursor, mitochondrial - human	pir A27294 RC5HUL3	58%	910	629
							43%	968	900
							70%	917	612
							100%	609	379
							100%	794	609

HMWCG28	847413	1520	blastx.2	KINASE DEFICIENT PROTEIN KDP (FRAGMENT).	sp Q9P1S9 Q9P1S9	99%	35	892
HMWCP85	757974	1521	blastx.2	Nia+-dependent vitamin C (L- ascorbic acid) transporter SVCT1 - human	pir JC7182 JC7182	86% 65% 79% 80% 100% 32%	363 698 1181 37 297 769 187	737 1264 1507 1507 834 940
HMWDG30	623758	1522	blastx.2	CG4263 PROTEIN	sp Q9VQ76 Q9VQ76	47% 33% 37%	30 364 1364	668 1411 1411
HMWDU20	695743	1523	blastx.2	CDNA FLJ20335 FIS, CLONE HEP11429 (FRAGMENT).	sp Q9XXB8 Q9XXB8	98% 89% 75%	1004 918 347	1831 1034 454
HMWDZ63	608146	1525	blastx.2	ISOCITRATE DEHYDROGENASE [NAD] SUBUNIT GAMMA, MITOCHONDRIAL, 1 (CDH).	sp P41565 IDHG_RAT	100% 33%	169 399	74 301
HMWEA77	839221	1526	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	71% 69% 53%	1281 761 1367	1075 645 1284
HMWEC03	598902	1527	blastx.2	HEAT SHOCK PROTEIN HSP60.	sp Q9P0X2 Q9P0X2	100% 99% 100%	573 105 1066	1064 572 1365
HMWEH46	825433	1528	blastx.2	(AL136803) hypothetical protein [Homo sapiens]	emb CAB66737.1	100%	1113	1226
HMWEK43	847414	1529	blastx.2	CDNA FLJ13520 fis, clone PLACE1005828.	sp BAB14610 BAB14610	46%	940	1167
HMWEM23	863105	1530	blastx.2	CDNA: FLJ22548 fis, clone HSI00519.	sp BAB15391 BAB15391	99% 95%	152 1086	1114 1532
HMWEM23	859387	1531	blastx.2	CDNA: FLJ22548 fis, clone HSI00519.	sp BAB15391 BAB15391	99% 95%	152 1086	1114 1532
HMWEU96	601698	2606	WUblastx.6 4	(AB039669) ALEX3 [Homo sapiens]	dbj BAA94602.1	88%	86	1222
HMWEX02	596821	1534	WUblastx.6 4	(AK024506) FLJ00116 protein [Homo sapiens]	dbj BAB15796.1	67%	509	1000
HMWFB65	638102	1535	blastx.2	MCD4P HOMOLOG.	sp Q95427 Q95427	100%	37	594

HMWFD77	610105	1536		blastx.2	PRO1902 PROTEIN.		sp Q9UHT1 Q9UHT1	98% 581	98%	898
HMWFO25	566855	1537		blastx.2	CDNA FLJ12060 fis, clone HEMBB1002142.		sp BABI3965 BAB13965	95% 894	95%	959
HMWGM41	847415	1539		blastx.2	CDNA FLJ13352 fis, clone OVARC1002165, weakly similar to 1		sp BABI4568 BAB14568	68% 9	68%	59
HMWGO95	582078	1540		blastx.2	CDNA: FLJ21463 fis, clone COL04765.		sp BABI15071 BAB15071	51% 496	51%	350
HMWGV85	847416	1541		blastx.2	CDNA FLJ13631 fis, clone PLACE1011090, highly similar to 1		sp BABI14643 BAB14643	289	61%	289
HMWGCZ42	824259	1542		blastx.2	CDNA: FLJ21463 fis, clone COL04765.		sp BABI15071 BAB15071	736	100%	816
HMWIQ26	722234	1545		blastx.2	BG:DS08220.1 PROTEIN.		sp Q9VJV4 Q9VJV4	33	100%	986
HMWIU49	800894	1546		blastx.2	APOPTOSIS-INDUCING FACTOR AIF.		sp Q95831 Q95831	1390	68%	1145
HMWJI62	838612	1547		blastx.2	CDNA: FLJ21463 fis, clone COL04765.		sp BABI15071 BAB15071	1446	82%	1396
HMWJI64	581071	1548		blastx.2	CG6949 PROTEIN.		sp Q9VCX3 Q9VCX3	41	100%	298
HNAAD76	596801	1549		blastx.2	UNNAMED PORTEIN PRODUCT.		sp Q9N083 Q9N083	1304	50%	1519
HNALD94	844722	1551		WUblastx.6 4	(AK00385) unnamed protein product [Homo sapiens]		dbj BAA91131.1	493	43%	5
HNALE44	785045	1552		blastx.2	FILAMIN, MUSCLE ISOFORM.		sp Q9Y503 Q9Y503	931	46%	395
								162	43%	162
								20%	20%	20
								379	97%	1362
								3	98%	407
								1384	38%	1500
								952	64%	758
								780	85%	718
								713	62%	633
								165	43%	917
								14	58%	136
								972	56%	1019
								1822	57%	1646
								1650	65%	1528
								764	70%	817
								816	72%	926
								79	98%	1191
								79	42%	798
								16	33%	879

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HNDAC35	847417	1553	blastx.2	PROTEIN AD-016 (PROTEIN CGL-116) (X0009).	sp Q9Y3C0 AD16_HUMAN	45% 1254	12	77
HNEAK38	631279	1556	blastx.2	PVA1 GENE.	sp Q26195 Q26195	43% 783	9	1343
HNEAK65	604991	1557	blastx.2	PRO1722.	sp Q9P195 Q9P195	31% 9	18	896
HNEBY79	841769	1559	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	36% 15	15	95
HNECL75	782493	1561	blastx.2	Pellino.	sp CAC04320 CAC04320	29% 1383	12	98
HNECX90	834776	1562	blastx.2	HYPOTHETICAL 43.5 KDA PROTEIN.	sp Q9U1L8 Q9U1L8	46% 1069	12	86
HNECX90	881133	1563	blastx.2	HYPOTHETICAL 43.5 KDA PROTEIN.	sp Q9U1L8 Q9U1L8	28% 1182	12	1182
HNEDP75	581072	1565	blastx.2	CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q9NX85 Q9NX85	36% 18	12	77
HNEQ02	846061	1566	blastx.2	CDNA FLJ10631 FIS, CLONE NT2RP2005635, WEAKLY SIMILAR TO 1	sp Q9NYM48 Q9NYM48	36% 18	12	92
HNEIDU46	695745	1567	blastx.2	6-phosphofructo-2-kinase heart isoform.	sp BAB19681 BAB19681	26% 1790	12	1927
HNFAD50	839369	1568	blastx.2	(A1298133) hypothetical protein [Homo sapiens]	emb CAC22252.1	52% 1238	1238	1555

HNFD50	843242	1569	blastx.2	(A1298133) hypothetical protein [Homo sapiens]	emb CAC22232.1	57% 29%	17 773	379 1075
HNFD67	804546	1570	blastx.2	(AX058048) unnamed protein product [Homo sapiens]	emb CAC22473.1	99%	327	857
HNFD77	886185	1571	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp Q60448 Q60448	72% 55% 68% 45% 67% 36% 56% 39% 50% 30% 92% 51% 63% 38% 37%	1945 1711 1944 1793 2346 1818 2346 2220 2297 1844 2349 2146 2254 2141 1745 2173	1796 1711 1944 1793 2125 1717 2140 2220 2088 1844 2134 2105 2162 2088 1653 2102
HNFCY57	877653	1573	blastx.2	ANGIOTENSIN/ASOPRESSIN RECEPTOR AII/AVP.	sp O75434 O75434	75% 72% 39%	317 1604 1763	1849 2203 2110
HNFDL89	823362	1574	blastx.2	NINJURIN (NERVE INJURY-INDUCED PROTEIN 1).	sp Q2982 NINJ_HUMA N	100% 87% 50%	1964 2098 909	2107 2193 909
HNFDU92	602933	1576	blastx.2	PRO2822.	sp Q9P147 Q9P147	71% 610 76%	610 438	422 388
HNFDY09	843300	1577	blastx.2	(AL137028) ba476115.3 (novel protein similar to septin) [Homo 1]	emb CAC28313.1	53% 72% 77%	1104 1265 1228	1238 1363 1281
HNFDY31	724955	1578	blastx.2	DEAD-BOX PROTEIN 3 (HELICASE-LIKE PROTEIN 2) (HLP2) 1	sp Q00571 DDX3_HUM AN	98% 98%	169 693	621 1028
HNFEA17	753242	1579	blastx.2	MAIL.	sp BAB18302 BAB18302	45% 49%	836 565	1306 565
HNFEPS5	722236	1580	blastx.2	HYPOTHETICAL 73.6 KDA PROTEIN.	sp Q9NWR80 Q9NWR80	71% 41%	158 877	862 966

HNFE112	824170	1581	blastx.2	CDNA: FLJ121394 fis, clone COL03536.	sp BAB15056 BAB15056	63%	1251	952
HNFR59	634649	1582	blastx.2	CDNA FLJ14310 fis, clone PLACE3000271.	sp BAB14900 BAB14900	75%	1630	1511
HNFR15	844044	1584	blastx.2	HYPOTHETICAL 15.4 KDA PROTEIN.	sp Q99770 Q99770	64%	776	886
HNFR53	589525	1586	blastx.2	PVA1 GENE.	sp Q26195 Q26195	53%	1128	1172
HNFRV68	567445	1589	blastx.2	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	pir T29097 T29097	71%	936	823
HNFE15	898153	1590	blastx.2	PRO2550.	sp AAG35515 AAG35515	47%	380	24
HNFE29	852233	1591	blastx.2	Hypothetical 12.9 kDa protein.	sp BAB12124 BAB12124	59%	2612	2370
HNFE27	825400	1593	blastx.2	CDNA FLJ11197 FIS, CLONE PLACE1007690.	sp Q9NUQ9 Q9NUQ9	72%	2374	2300
HNAC71	695746	1595	blastx.2	PRO2822.	sp Q9PI47 Q9PI47	58%	1151	1387
HNAX06	841890	1599	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q14288 Q14288	93%	986	1123
HNGBE44	825391	1603	blastx.2	AXONEMAL DYNEIN HEAVY CHAIN (FRAGMENT).	sp Q00437 Q00437	60%	148	65
HNGB183	566815	1605	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp Q00448 Q00448	70%	68	9
HNGBP30	603344	1607	blastx.2	Hypothetical 15.8 kDa protein.	sp AAG1720 AAG1720	100%	22	108
HNGB29	580201	1611	blastx.2	PRO2550.	sp AAG3515 AAG3515	96%	323	502
HNGB24	823147	1612	blastx.2	Hypothetical 14.2 kDa protein.	sp AAG1721 AAG1721	59%	280	420
HNGBF54	702002	1613	blastx.2	POSSIBLE SRPA.	sp Q9N8T2 Q9N8T2	56%	283	420
						74%	13	87
						56%	22	111
						51%	12	104
						61%	10	87
						44%	28	114
						61%	42	80
						53%	122	160
						54%	411	241
						51%	1147	842
						53%	1763	1623
						39%	1932	1765
						29%	15	728

HNGDH27	581074	1615	blastx.2	RETINOBLASTOMA 1.	sp Q92722 Q92722	46% 42% 38%	290 290 99	99 57 22
HNGDN07	847081	1616	blastx.2	CDNA FLJ20378 FIS, CLONE KAlA0536.	sp Q9NX85 Q9NX85	75%	898	1089
HNGEE06	689506	1622	blastx.2	CDNA FLJ12988 fis, clone NT2RP3000080.	sp BAB14376 BAB14376	61% 43%	1040 66	909 1
HNGE164	732066	1625	blastx.2	RAT 2.4 KB REPEAT DNA RIGHT TERMINAL REGION (FRAGMENT).	sp Q63500 Q63500	51% 57%	564 512	710 568
HNGEN32	621308	1628	blastx.2	CDNA: FLJ22294 fis, clone HRC04426.	sp BAB15291 BAB15291	82% 44%	400 293	567 400
HNGET33	825378	1631	blastx.2	PRO2550.	sp AAG35515 AAG35515	78%	459	755
HNGEX18	621339	1632	blastx.2	DNA-binding protein - mouse (fragment)	pir Q1058 Q1058	89% 32%	11 291	67 473
HNGEZ02	825376	1634	blastx.2	CDNA FLJ20378 FIS, CLONE KAlA0536.	sp Q9NX85 Q9NX85	80%	819	938
HNGEZ90	634858	1635	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	71% 72%	956 1119	810 1045
HNGFA25	609887	1636	blastx.2	Extremely cysteine/valine rich protein (fragment).	sp CAC02731 CAC02731	46% 42% 47% 43% 49% 40% 43% 43%	235 250 235 244 235 244 235 235	2 2 2 2 2 2 2 2
HNGFD30	612782	1638	blastx.2	ORF3, SPLICEVARIANT, A.	sp Q75423 Q75423	98%	264	100
HNGFD31	663532	1639	blastx.2	X-linked retinopathy protein (C-terminal, clone XEH.Sc) - human (fragment)	pir A46010 A46010	62%	479	670
HNGFG04	772548	1641	blastx.2	X-LIKE 1 PROTEIN.	sp Q9Y485 Q9Y485	100%	408	533
HNGFI21	581075	1645	blastx.2	PROLINE-RICH PROTEIN PRCC.	sp Q92733 PRCC_HUMAN	60%	117	296
HNGFT70	581079	1650	blastx.2	CDNA FLJ12155 fis, clone MAMMA1000472.	sp BAB13989 BAB13989	71% 60%	1079 919	912 767

HNGGF13	63817	1653	WUblastx.6 4	HC1 ORF [Mus musculus]	emb CAA46991.1	38% 37%	13 13	183 186
HNGGK63	822862	1654	blastx.2	OLFACTORY RECEPTOR.	sp Q9QZ22 Q9QZ22	88% 84%	994 1224	278 991
HNGGT10	866179	1659	HMMER 2.1.1	PFAM: 3-beta hydroxysteroid dehydrogenase/isomerase family	PF01073	263.9	19	468
			blastx.2	3 beta-hydroxy-delta 5-C27- steroid oxidoreductase.	sp AAG37824 AAG37824	98%	10	480
HNGHB89	722238	1661	blastx.2	E-STOP PROTEIN.	sp O88748 O88748	97%	153	7
HNGHD07	608149	1662	blastx.2	Hypothetical 12.9 kDa protein.	sp BAB12124 BAB12124	65% 58%	1038 1168	1169 1218
HNGIK07	825360	1668	blastx.2	(AF063598) brain myo40 protein [Homo sapiens]	gb AAG43157.1 AF06359 8.1	100%	1139	912
HNGIM40	747699	1669	blastx.2	CDNA: FLJ22921 fis, clone KAT06711.	sp BAB15502 BAB15502	83%	2354	2196
HNGIM83	751714	1670	HMMER 2.1.1	PFAM: HCO3- transporter family	PF00955	117.9	72	290
			blastx.2	BICARBONATE TRANSPORTER.	sp Q9UIB9 Q9UIB9	91%	9	290
HNGIO93	897527	1671	HMMER 2.1.1	PFAM: Ribosomal L27 protein (AB049647) mitochondrial ribosomal protein L27 (L27mt)	PF01016	71.7	-21	-233
			WUblastx.6 4	(AB049647) mitochondrial ribosomal protein L27 (L27mt)	dbj BAB40852.1	88%	151	594
HNGIU16	826717	1673	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	69%	2517	2215
HNGIX91	564574	1674	blastx.2	CDNA: FLJ14310 fis, clone PLACE3000271.	sp BAB14900 BAB14900	75% 80%	698 885	892 947
HNGJU60	825336	1682	blastx.2	Extremely cysteine/valine rich protein (Fragment).	sp CAC02731 CAC02731	54% 50% 51% 53% 52% 53% 48%	180 171 171 169 171 171 171	482 491 488 489 488 476 488

HINGW35	899408	1684	blastx.2	HYPOTHETICAL 11.0 KDA PROTEIN (ORF2).	sp O00627 O00627	53%	292	477
HINGY94	835021	1685	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	70%	813	583
HNHAB38	609892	1688	blastx.2	PRO2550.	sp AAG35513 AAG35515	66%	581	501
HNHAD34	612845	1690	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	78%	635	339
HNHAY26	704789	1698	blastx.2	PRO2852.	sp AAG35503 AAG35505	70%	1055	924
HNHAZ20	839096	1700	blastx.2	(AF119045) unknown [Homo sapiens]	gb AAK02011.1	85%	2098	1919
HNHBE21	606789	1701	blastx.2	protein BYJ15 - common tobacco (fragment)	pir T02229 T02229	99%	1213	11
HNHBE38	562730	1702	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	40%	1464	1375
						100%	102	176
						77%	1151	855
						51%	171	482
						53%	169	489
						47%	171	488
						52%	166	489
						48%	171	488
						52%	169	489
						48%	171	491
						50%	171	470
						49%	172	489
						50%	170	487
						48%	171	491
						53%	172	489
						49%	170	490
						51%	169	489
						53%	178	489
						46%	170	487
						49%	170	487
						49%	170	487
						45%	170	487
						43%	170	487
						46%	170	487
						52%	166	453
						51%	166	333

HNHBG18	604924	1703	blastx.2	LI ELEMENT L1.15 P40 PROTEIN.	sp O00365 O00365	30%	717	271
HNHBM16	566866	1705	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	68% 87%	337 80	80 33
HNHCH78	694657	1706	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	75%	5	298
HNHCT47	634691	1710	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	56% 46%	621 434	448 396
HNHDC52	812424	1713	blastx.2	LI ELEMENT L1.15 P40 PROTEIN.	sp O00365 O00365	68% 32%	269 1038	269 910
HNHDI17	738043	1716	blastx.2	POT. ORF VI (FRAGMENT):	sp O95662 O95662	70% 80%	5 265	295 327
HNHDR57	638121	1719	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	69% 37%	1092 669	799 364
HNHDR96	664497	1720	blastx.2	hypothetical protein XF0051 [imported] - <i>Xylella fastidiosa</i> (strain 9a5c)	pir G82853 G82853	41% 52% 52% 41% 45% 48% 54% 48% 42%	1033 980 980 1021 993 975 980 975 1021	764 765 765 794 763 763 816 775 830
HNHDW34	607867	1722	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	66% 66%	985 1175	671 999
HNHEF70	610115	1728	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	66% 77% 80%	650 417 481	462 352 419
HNHEL22	607421	1731	blastx.2	CDNA FLJ1292 FIS, CLONE PI-ACE1009665.	sp Q9NUL2 Q9NUL2	72% 71%	363 280	656 342
HNHEN70	834712	1732	blastx.2	olfactory receptor OR18 - rat	pir S29710 S29710	67%	34	567
HNHEP41	638124	1734	blastx.2	CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q9NX85 Q9NX85	73% 41%	736 915	635 730
HNHEZ76	618544	1738	blastx.2	(AP002460) gene_id:FTID9.26-unknown protein [Arabidopsis thaliana]	dby BAA97098.1	28% 28% 28% 28%	357 357 357 357	19 19 19 19

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Figure 6

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